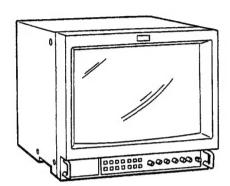
# PVM-1350/1351Q/1354Q

# SERVICE MANUAL



### US Model Canadian Model

Chassis No. SCC-G61D-A

PVM-1351Q

Chassis No. SCC-G61C-A

PVM-1354Q

Chassis No. SCC-G61B-A

#### SPECIFICATIONS (PVM-1351Q/1354Q)

#### Video signal

Color system Resolution

PAL, SECAM, NTSC3.58, NTSC4.43 600 TV lines (PVM-1354Q) 450 TV lines (PVM-1351Q)

Aperture correction

0dB - +6.0dBLINE 9.0MHz (-3 dB)

Frequency response Synchronization

RGB 10.0 MHz (-3 dB) AFC time constant 1.0 msec.

#### Picture performance

Normal scan

7% over scan of CRT effective screen

Underscan

5% underscan of CRT effective screen

area

H. linearity V. linearity Less than 8.0% (typical)

Convergence

Less than 7.0% (typical) Central area:

0.6 mm (typical) Peripheral area: 0.8 mm (typical) H: 1.0%, V: 1.5%

Raster size stability High voltage regulation

CRT

SMPTE-C phosphor (PVM-1354Q)

P22 phosphor (PVM-1351Q)

Color temperature

6,500K/9,300K (+8MPCD), selectable USER (3200K-10000K, factory setting

is 6500K)

#### **Inputs and Outputs**

Inputs

Y/C IN: 4-pin mini DIN connector (See the pin assignment on the next

VIDEO IN:BNC connector

1Vp-p ±6dB, sync negative AUDIO IN: phono jack, –5dBs, more

than 47k ohms

R/R-Y, G/Y, B/B-Y IN: BNC

connector

R, G, B channels: 0.7 Vp-p, ±6dB Sync on green: 0.3 Vp-p, negative, 75

ohms terminated

R-Y, B-Y channels: 0.7 Vp-p, ±6 dB Y channel: 0.7 Vp-p, ±6dB (Standard color bar signal of 75% chrominance)

EXT SYNC IN: BNC connector

Composite sync 4 Vp-p, ±6 dB,

negative

Loop-through outputs

Speaker output

Y/C OUT: 4-pin mini DINconnector

VIDEO OUT: BNC connecor, 75

ohms terminated

AUDIO OUT: phono jack R/R-Y, G/Y, B/B-Y OUT: BNC connector, 75 ohms terminated EXT SYNC OUT: BNC cornector, 75

Remote input

REMOTE: 20-pin connector (See the

pin assignment on the next page.)

Output level 0.8 W

ohms terminated

- Continuedan page 2 -



TRINITRON® COLOR VIDEO MONITOR SONY

#### General

Power consumption

Approx. 99 Wh (incl. SDI) Approx. 90 Wh (without. SDI) 120 V AC, 50/60 Hz

Power requirements

Operating temperature range 0 –35 °C

Storage temperature range -10 - +40 °C

Humidity **Dimensions**  0 - 90%

Mass

0-90%
Approx. 346 × 340 × 411.5 mm
(w/h/d)
(13 <sup>5</sup>/<sub>8</sub> × 13 <sup>1</sup>/<sub>2</sub> × 16 <sup>1</sup>/<sub>4</sub> inches)
not incl. projecting parts and controls
Approx. 16.7 kg (36 lb 14 oz).
AC power cord (1)
AC plug holder (1)
Tally label (1)
Cable with a 20-pin connector (1)

Accessory supplied

Cable with a 20-pin connector (1)

#### Pin assignment

#### Y/C IN connector (4-pin mini DIN)



| Pin No. | Signal                       | Description  |
|---------|------------------------------|--|
| 1       | Y-input                      | 1 Vp-p, sync negative, 75<br>ohms  |
| 2       | CHROMA sub-<br>carrier-input | 300 mVp-p, burst<br>Delay time between Y and C:<br>within 0±100 nsec., 75 ohms |
| 3       | GND for Y-input              | GND  |
| 4       | GND for<br>CHROMA-input      | GND  |

#### **REMOTE connector (20-pin)**



| Pin No. | Signal                 | Wire color        |  |
|---------|------------------------|-------------------|--|
| 1       | Blue only              | Brown             |  |
| 2       | H/V DELAY              | Red               |  |
| 3       | MAIN/SUB*              | Orange            |  |
| 4       | EXT SYNC               | Yellow            |  |
| 5       | DEGAUSS                | Green             |  |
| 6       | R ch ON/OFF*           | Blue              |  |
| 7       | TALLY                  | Purple            |  |
| 8       | LINE B                 | Grey              |  |
| 9       | GND                    | White             |  |
| 10      | GND                    | Black             |  |
| 11      | GND                    | Pink              |  |
| 12      | GND                    | Light Blue        |  |
| 13      | LINE A                 | Spiral Orange     |  |
| 14      | LINE/RGB               | Spiral Yellow     |  |
| 15      | GND                    | Spiral Green      |  |
| 16      | L ch ON/OFF*           | Spiral Blue       |  |
| 17      | REMOTE                 |                   |  |
| 18      |                        |                   |  |
| 19      | UNDER SCAN Spiral Pink |                   |  |
| 20      | 16:9                   | Spiral Light Blue |  |

<sup>(\*</sup> For digital audio control)

#### SPECIFICATIONS (PVM-1350)

#### Video signal

Color system Resolution

NTSC

Aperture correction

450 TV lines 0 dB - +6.0 dB LINE 9.0 MHz (-3 dB)

Frequency response

Synchronization

RGB 10.0 MHz (-3 dB) AFC time constant 1.0 msec.

#### Picture performance

Normal scan

7% over scan of CRT effective screen

H. linearity

Less than 8.0% (typical) Less than 7.0% (typical) H: 1.0%, V: 1.5%

V. linearity

Raster size stability High voltage regulation

P22 phosphor

Color temperature

6,500K

#### **Inputs and Outputs**

Inputs

Y/C IN: 4-pin mini DIN connector (See the pin assignment below.) VIDEO IN: BNC connector

1Vp-p ±6 dB, sync negative AUDIO IN: phono jack, –5 dBs, more than 47k ohms

R, G, B IN: BNC connector 0.7 Vp-p, ±6 dB

Sync on green: 0.3 Vp-p, negative, 75 ohms terminated

RGB SYNC IN: BNC connector

Composite sync 4 Vp-p, ±6 dB,

negative

Loop-through outputs Y/C OUT: 4-pin mini DIN connector VIDEO OUT: BNC connector,

75 ohms terminated AUDIO OUT: phono jack

Speaker output

Output level 0.8 W

#### General

Power consumption Power requirements

Approx. 90 Wh 120 V AC, 50/60 Hz

Operating temperature range 0 - 35 °C

Storage temperature range -10 - +40 °C

Humidity

0 - 90%

**Dimensions** 

Approx.  $346 \times 340 \times 411.5 \text{ mm}$ 

(w/h/d)

 $(13^{5}/_{8} \times 13^{1}/_{2} \times 16^{1}/_{4} \text{ inches})$ 

not incl. projecting parts and controls Approx. 16.7 kg (36 lb 14 oz)

Mass

Accessory supplied

AC power cord (1) AC plug holder (1)

#### Pin assignment

#### Y/C IN connector (4-pin mini DIN)



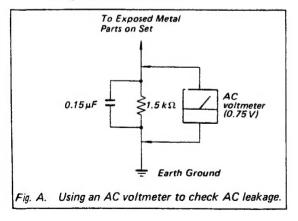
| Pin No. | Signal          | Description                 |
|---------|-----------------|-----------------------------|
| 1       | Y-input         | 1 Vp-p, sync negative,      |
|         |                 | 75 ohms                     |
| 2       | CHROMA sub-     | 300 mVp-p, burst            |
|         | carrier-input   | Delay time between Y and C: |
|         |                 | within 0±100 nsec., 75 ohms |
| 3       | GND for Y-input | GND                         |
| 4       | GND for         | GND                         |
|         | CHROMA-input    |                             |

Design and specifications are subject to change without notice.

# SAFETY CHECK-OUT (US Model Only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion.
   Recommend the replacement of any such line cord to the customer.
- Check the condition of the monopole antenna (if any).
  - Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



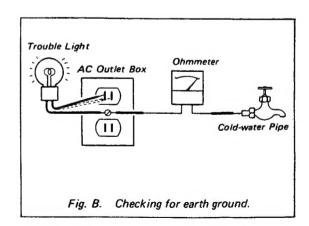
#### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

#### HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



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#### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAPTO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

#### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

#### SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

#### (ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTES UR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

#### ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.

LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDE Á L'ALIMENTATION SECTEUR.

#### ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE À SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOS ANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNE MENT EST SUSPECTÉ.

# SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

#### 1-1. GENERAL OF PVM-1351Q/1354Q

### **Features**

#### HR (High Resolution) Trinitron picture tube

HR Trinitron tube provides a high resolution picture. Horizontal resolution is more than 600 (PVM-1354Q/1954Q) or 450 (PVM-1351Q) TV lines at the center of the picture.

#### Four color systems available

The monitor can display PAL, SECAM, NTSC3.58 and NTSC4.43\* signals. The appropriate color system is selected automatically.

 A signal of NTSC<sub>443</sub> is used for playing back NTSC recorded video cassettes with a video tape recorder/ player especially designed for use with this system.

#### Blue only mode

In the blue only mode, an apparent monochrome display is obtained with all three cathodes driven with a blue signal. This facilitates color saturation and phase adjustments and observation of VCR noise.

#### **Analog RGB/component input connectors**

Analog RGB or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors.

#### Y/C input connectors

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

#### Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

#### Comb filter

When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

### Automatic termination (connector with $\frak{1}{ ext{connector}}$ mark only)

The input connector is terminated at 75 ohms inside when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohms termination is automatically released.

#### **Underscan mode**

The signal normally scanned outside of the screen can be monitored in the underscan mode.

#### Note

When the monitor is in the underscan mode, the dark RGB scanning lines may appear on the top edge of the screen. These are caused by an internal test signal, rather than the input signal.

#### Horizontal/vertical delay mode

The horizontal and vertical sync signals can be checked simultaneously in the H/V delay mode.

#### **External sync input**

When the EXT SYNC selector is in the on position, the monitor can be operated on the sync signal supplied from an external sync generator.

#### Auto/manual degaussing

Degaussing of the screen can be performed automatically when the power is turned on, or manually by pressing the DEGAUSS button.

#### On-screen menus

You can set color temperature, CHROMA SET UP, and other settings by using the on-screen menus.

#### Five menu languages

You can select the menu language from among the five languages on the menu.

#### EIA standard 19-inch rack mounting

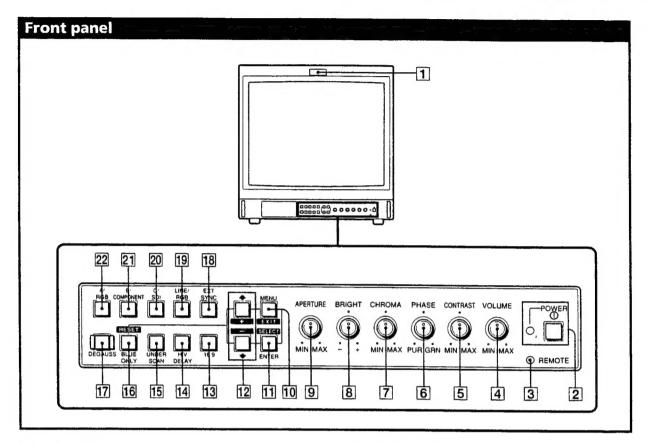
By using an MB-502B (for PVM-1354Q/1351Q) or SLR-103 (for PVM-1954Q) mounting bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the mounting bracket kit.

#### SDI (Serial Digital Interface) kit

Digital audio board

By using SDI kit, the monitor can display SMPTE 259M 4:2:2 serial digital signal from a digital VTR. (ex. Sony 4:2:2 VTR) SDI kit: 4:2:2 digital video board

# Location and function of parts and controls



#### 1 Tally lamp

Lights up when the video camera connected to this monitor is selected, indicating that the picture is being recorded.

#### 2 POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green.

#### **3 REMOTE indicator**

Lights up when you set USER PRESET to ON in the menu, or when you connect a supplied cable to REMOTE connector (No. 17 pin is ground). The controls on the front panel do not work when this indicator lights up.

#### 4 VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume.

#### 5 CONTRAST control

Turn clockwise to make the contrast higher and counterclockwise to make it lower.

#### 6 PHASE control

This control is effective only for the NTSC3.58 and NTSC4.43 color systems. Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

#### 7 CHROMA control

Turn clockwise to make the color intensity higher and counterclockwise to make it lower.

#### 8 BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

#### 9 APERTURE control

Turn clockwise for more sharpness and counterclockwise for less.

#### Note

The APERTURE, CHROMA, PHASE control settings have no effect on the pictures of RGB signals.

#### 10 MENU (EXIT) button

Press to make the menu appear. Press to return to  $\hbar e$  previous screen in the menu.

#### 11 ENTER (SELECT) button

Press to decide a selected item in the menu.

#### 12 1 (+)/ ↓ (-) buttons

Press to move the cursor (>) or adjust selected value in the menu.

2



#### 13 16:9 selector

Press (light on) for the signal of 16:9 picture.

#### 14 H/V DELAY selector

Press (light on) to observe the horizontal and vertical sync signals at the same time.

The horizontal sync signal is displayed in the left quarter of the screen; the vertical sync signal is displayed near the center of the screen.

#### 15 UNDER SCAN selector

Press (light on) for underscanning. The display size is reduced by approximately 5% so that four corners of the raster are visible.

### 16 BLUE ONLY selector RESET button

Press (light on) to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase\*" control adjustments and observation of VCR noise.

 "Phase" control adjustment is effective only for the NTSC signals.

Press to reset the setting in the menu.

#### 17 DEGAUSS button

Press this button momentarily. The screen will be demagnetized. Wait for 10 minutes or more before activating this button again.

#### 18 EXT SYNC (external sync) selector

Keep this button in the off position (light off) to operate the monitor on the sync signal from the displayed video signal.

Keep this button in the on position (light on) to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel.

#### 19 LINE/RGB input selector

Select the program to be monitored. Keep this button in the off position (light off) to feed a signal through the LINE A, LINE B or LINE C connectors. Keep this button in the on position (light on) to feed a signal through the RGB connectors.

#### 20 C/SDI selector

When the LINE/RGB input selector is set to LINE (light off), press this button (light on) to feed a signal through the LINE C connectors.

When the LINE/RGB input selector is set to RGB (light on), press this button (light on) to feed the SDI signal (optional board is needed).

#### 21 B/COMPONENT selector

When the LINE/RGB input selector is set to LINE (light off), press this button (light on) to feed a signal through the LINE B connectors.

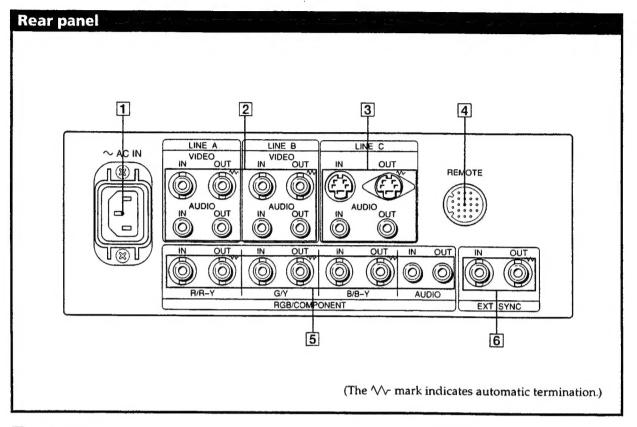
When the LINE/RGB input selector is set to RGB (light on), press this button (light on) to feed the component signal.

#### 22 A/RGB selector

When the LINE/RGB input selector is set to LINE (light off), press this button (light on) to feed a signal through the LINE A connectors.

When the LINE/RGB input selector is set to RGB (light on), press this button (light on) to feed the RGB signal.

### Location and function of parts and controls



#### 1 AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet.

#### 2 LINE A, LINE B connectors

Two groups (A and B) of line input connectors for the composite video and audio signals and their loop-through output connectors.

To monitor the input signal fed through these connectors, keep the LINE/RGB selector in the LINE position (light off) and press the A/RGB or B/COMPONENT selector (light on) on the front panel.

#### VIDEO IN (BNC)

Connect to the video output of a video equipment, such as a VCR or a color video camera. For a loop-through connection, connect to the video output of another monitor.

#### VIDEO OUT (BNC)

Loop-through output of the VIDEO IN connector. Connect to the video input for a VCR or another monitor.

When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the VIDEO IN connector is output from this connector.

#### AUDIO IN (phono jack)

Connect to the audio output of a VCR or to a microphone via a suitable microphone amplifier. For a loop-through connection, connect to the audio output of another monitor.

#### AUDIO OUT (phono jack)

Loop-through output of the AUDIO IN jack. Connect to the audio input of a VCR or another monitor.

#### 3 LINE C connectors

#### Y/C IN (4pin mini DIN)

Connect to the Y/C separate output of a video camera, VCR or other video equipment.

#### Y/C OUT (4pin mini DIN)

Loop-through output of the Y/C IN connector. Connect to the Y/C separate input of a VCR or another monitor. When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the Y/C IN connector is output from this connector.

#### **AUDIO IN (phono jack)**

Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).

#### **AUDIO OUT (phono jack)**

Loop-through output of the AUDIO IN connector.

Connect to the audio input of a VCR or another monitor.

#### 4 REMOTE connector (20pin)

Connect to the tally output of a control console, special-effect generator, etc. The tally lamp on the front panel will be turned on and off by the connected equipment. This connector can be used for connecting a remote controller. For the pin assignment of this connector, see "Specifications" on page 10.

#### **5 RGB/COMPONENT connectors**

RGB signal or component signal input connectors and their loop-through output connectors.

To monitor the input signal fed through these connectors, keep the LINE/RGB selector in the RGB position (light on), and press the A/RGB or B/COMPONENT selector (light on) on the front panel.

#### R/R-Y IN, G/Y IN, B/B-Y IN (BNC)

When the EXT SYNC selector on the front panel is in the off position (light off), the monitor operates on the sync signal from the G/Y channel.

#### To monitor the RGB signal

Connect to the analog RGB signal outputs of a video camera.

#### To monitor the component signal

Connect to the R-Y/Y/B-Y component signal outputs of a Sony Betacam video camera.

#### R/R-Y OUT, G/Y OUT, B/B-Y OUT (BNC)

Loop-through outputs of the R/R-Y IN, G/Y IN, B/B-Y IN connectors

#### For RGB signal

Connect to the analog RGB signal inputs of a video printer or another monitor.

#### For component signal

Connect to the  $R-Y/\overline{Y}/B-Y$  component signal inputs of a Betacam video recorder.

When the cables are connected to these connectors, the 75-ohms termination of the inputs is automatically released, and the signal inputs to the R/R-Y IN, G/Y IN, B/B-Y IN connectors are output from these connectors.

#### AUDIO IN (phono jack)

Connect to the audio output of video equipment when the analog RGB or component signal is input.

#### **AUDIO OUT (phono jack)**

Loop-through outputs of the AUDIO IN connector.

#### 6 EXT SYNC (external sync) connectors

To use the sync signal fed through this connector, press the EXT SYNC selector (light on).

#### IN (BNC

When this monitor operates on an external sync signal, connect the reference signal from a sync generator to this connector.

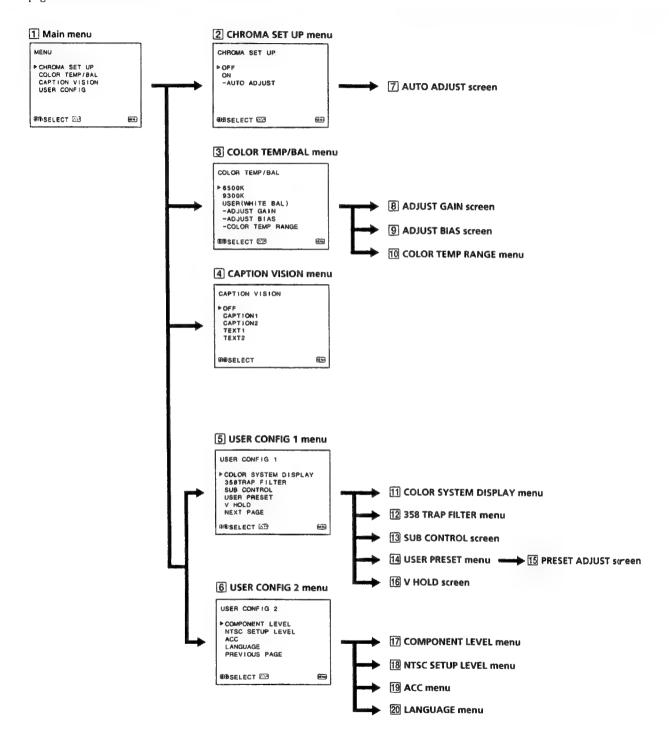
#### OUT (BNC)

Loop-through output of the EXT SYNC IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.

When the cable is connected to this connector, the 75ohms termination of the input is released, and the signal input to the IN connector is output from this connector.

# Using on-screen menus

The flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings. The boxed number is for instructions on the next page.



#### Operating through menus

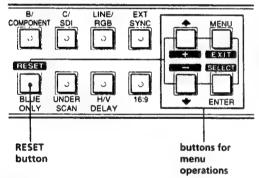
There are five buttons for menu operations on the front of the monitor. To display the main menu, first press MENU. The buttons you can use appear at the bottom of the menu

#### **Functions of the buttons**

| Button          | To select menu item           | To adjust menu item<br>selected                             |
|-----------------|-------------------------------|---|
| MENU<br>EXIT    | return to the previous menu   | return to the previous menu                                 |
| ENTER<br>SELECT | decide a selected item        | select an item  |
| 1               | move the cursor (►) upwards   | increase selected value                                     |
| ļ               | move the cursor (►) downwards | decrease selected value                                     |
| RESET           |                               | reset current adjustment<br>value to the factory<br>setting |

(The above items in white type correspond to the marks in the menu.)

#### front of monitor



#### 1 Main menu

Select an item and press ENTER to go to the following menu.

#### 2 CHROMA SET UP menu

Set to ON to adjust the internal decoder for CHROMA and PHASE (NTSC signal only) after AUTO ADJUST (7).[OFF]

#### 3 COLOR TEMP/BAL menu

Select the color temperature from among 6500K, 9300K and USER. USER is set to 6500K in the factory setting. You can adjust or change the color temperature in USER mode (a measuring instrument is needed).

#### 4 CAPTION VISION menu

The monitor can display the signal with Caption Vision. To display it, select the caption type in this menu.

#### 5 USER CONFIG 1 menu

Select an item to adjust. To go to the USER CONFIG 2 menu, select NEXT PAGE.

#### 6 USER CONFIG 2 menu

Select an item to adjust. To go to the USER CONFIG 1 menu select PREVIOUS PAGE.

#### 7 AUTO ADJUST screen

Select the color bar signal (full, SMPTE, EIA) and press ENTER to start auto adjusting for CHROMA SET UP (NTSC signal only).

#### 8 ADJUST GAIN screen

Adjust GAIN in USER mode.

#### 9 ADJUST BIAS screen

Adjust BIAS in USER mode.

#### 10 COLOR TEMP RANGE menu

Select the color temperature range in USER mode. [5000K-10000K]

#### 11 COLOR SYSTEM DISPLAY menu

Select the color system display mode. In AUTO, the kind of color system being used appears on the screen each time you change the signal input. **IAUTO** 

#### 12 358 TRAP FILTER menu

Color spill or color noise may be eliminated if you select ON (NTSC3.58 signal only). [OFF]

#### 13 SUB CONTROL screen

You can finely adjust the controls on the front panel. CONTRAST, BRIGHT, CHROMA and PHASE control has a click at the center of its adjustment range. You can adjust the setting of the click position with this feature.

#### 14 USER PRESET menu

You can preset each control to a desired level and set it. If you set USER PRESET to ON, the REMOTE indicator lights up and the controls on the front panel do not work. The monitor operates with the internal memory settings. For adjustment, select PRESET ADJUST. [OFF]

#### 15 PRESET ADJUST screen

Adjust CONTRAST, BRIGHT, CHROMA, PHASE, VOLUME, APERTURE in USER PRESET.

#### 16 V HOLD screen

Adjust the vertical hold if the picture rolls vertically. When you cannot read the display, select the input that is not connected.

#### 17 COMPONENT LEVEL menu

Select the component level from among three modes. N10/SMPTE for 100/0/100/0 signal **BETA 7.5** for 100/7.5/75/7.5 signal

BETA 0

for 100/0/75/0 signal

[BETA 7.5]

#### 18 NTSC SETUP LEVEL menu

Select the NTSC setup level from two modes. The 7.5 setup level is mainly used in north America. The 0 setup level is mainly used in Japan.

#### 19 ACC menu

Set ACC (Auto Color Control) circuit on or off. When the fine adjustment is needed, set ACC to OFF. Normally set it to ON. [ON]

#### 20 LANGUAGE menu

You can select the menu language from among the five languages (English, German, French, Italian, Spanish) on the menu.

[ENGLISH]

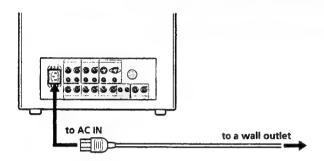
([] indicates the factory setting position.)

7

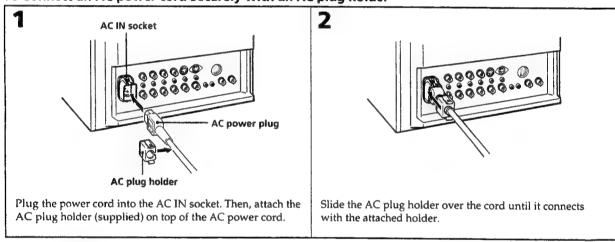
# **Power sources**

#### House current...

Connect the AC power cord (supplied) to the AC IN socket and to a wall outlet.



#### To connect an AC power cord securely with an AC plug holder



#### To remove the AC power cord

Pull out AC plug holder by squeezing the left and right sides.

#### 1-2. GENERAL OF PVM-1350

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

### **Features**

#### Fine pitch Trinitron picture tube

The fine pitch Trinitron tube provides a high resolution picture. Horizontal resolution is more than 450 TV lines at the center of the picture.

#### **Analog RGB input connectors**

Analog RGB signals from video equipment can be input through these connectors.

#### Y/C input connectors

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

#### Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

#### Comb filter

When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

### Automatic termination (connector with mark only)

The input connector is terminated at 75 ohms inside when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohms termination is automatically released.

#### Blue only mode

In the blue only mode, an apparent monochrome display is obtained with all three cathodes driven with a blue signal. This facilitates color saturation and phase adjustments and observation of VCR noise.

#### Auto/manual degaussing

Degaussing of the screen can be performed automatically when the power is turned on, or manually by pressing the DEGAUSS button.

#### **On-screen menus**

You can set CHROMA SET UP and other settings by using the on-screen menus.

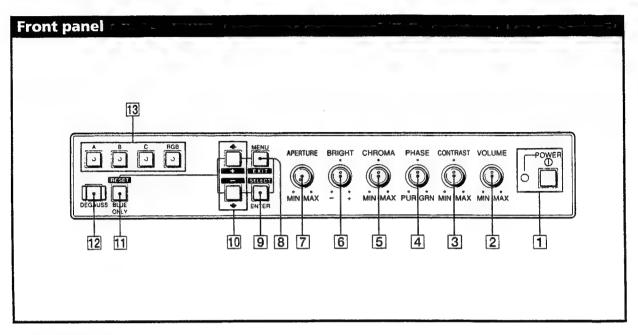
#### Five menu languages

You can select the menu language from among the five languages on the menu.

#### EIA standard 19-inch rack mounting

By using an MB-502B mounting bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the mounting bracket kit.

# Location and function of parts and controls



#### 1 POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green.

#### 2 VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume.

#### 3 CONTRAST control

Turn clockwise to make the contrast higher and counterclockwise to make it lower.

#### 4 PHASE control

Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

#### 5 CHROMA control

Turn clockwise to make the color intensity higher and counterclockwise to make it lower.

#### 6 BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

#### 7 APERTURE control

Turn clockwise for more sharpness and counterclockwise for less.

#### Note

The APERTURE, CHROMA, PHASE control settings have no effect on the pictures of RGB signals.

#### 8 MENU (EXIT) button

Press to make the menu appear. Press to return to the previous screen in the menu.

#### 9 ENTER (SELECT) button

Press to decide a selected item in the menu.

#### 10 **↑** (+)/ **↓** (-) buttons

Press to move the cursor (>) or adjust selected value in the menu.

### 11 BLUE ONLY selector RESET button

Press (light on) to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" control adjustments and observation of VCR noise.

Press to reset the setting in the menu.

#### 12 DEGAUSS button

Press this button momentarily. The screen will be demagnetized. Wait for 10 minutes or more before activating this button again.

#### 13 Input select buttons

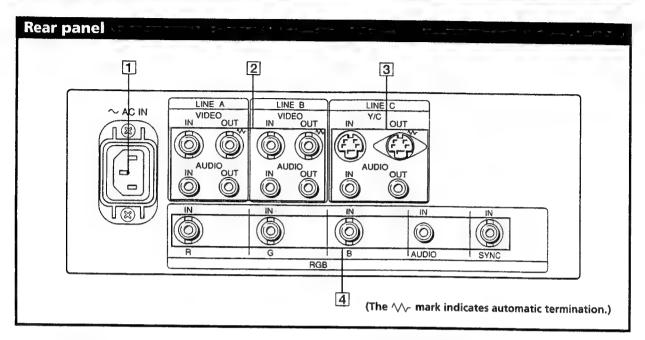
Press (light on) to select the program to be monitored.

A: for a signal fed through the LINE A connectors.

B: for a signal fed through the LINE B connectors.

C: for a signal fed through the LINE C connectors.

RGB: for a signal fed through the RGB connectors.



#### 1 AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet.

#### 2 LINE A, LINE B connectors

Two groups (A and B) of line input connectors for the composite video and audio signals and their loop-through output connectors.

To monitor the input signal fed through these connectors, press the A or B button (light on) on the front panel.

#### VIDEO IN (BNC)

Connect to the video output of video equipment, such as a VCR or a color video camera. For a loop-through connection, connect to the video output of another monitor.

#### **VIDEO OUT (BNC)**

Loop-through output of the VIDEO IN connector. Connect to the video input for a VCR or another monitor.

When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the VIDEO IN connector is output from this connector.

#### **AUDIO IN (phono jack)**

Connect to the audio output of a VCR or to a microphone via a suitable microphone amplifier. For a loop-through connection, connect to the audio output of another monitor.

#### AUDIO OUT (phono jack)

Loop-through output of the AUDIO IN jack. Connect to the audio input of a VCR or another monitor.

#### 3 LINE C connectors

#### Y/C IN (4pin mini DIN)

Connect to the Y/C separate output of a video camera, VCR or other video equipment.

#### Y/C OUT (4pin mini DIN)

Loop-through output of the Y/C IN connector. Connect to the Y/C separate input of a VCR or another monitor. When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the Y/C IN connector is output from this connector.

#### **AUDIO IN (phono jack)**

Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).

#### AUDIO OUT (phono jack)

Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

#### 4 RGB IN connectors

Connect to the analog RGB outputs of a video camera. To monitor the input signal fed through these connectors, press RGB button (light on) on the front panel.

#### R IN, G IN, B IN (BNC)

When you set RGB SYNC to SYNC ON G in the menu, the monitor operates on the sync signal from the G channel.

#### **AUDIO IN (phono jack)**

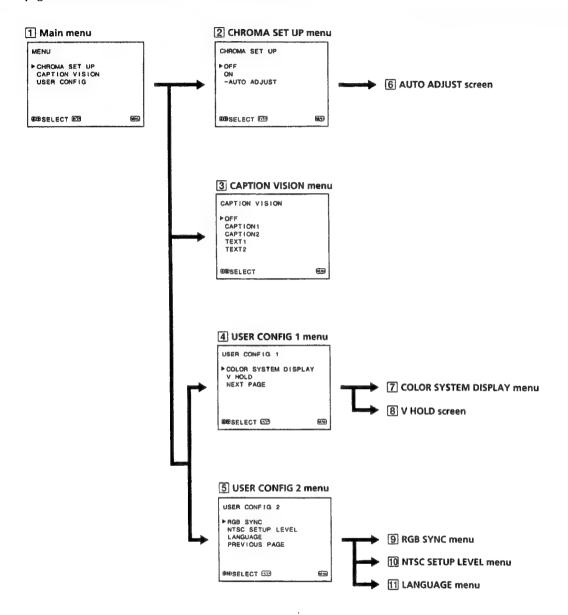
Connect to the audio output of video equipment when the analog RGB signal is input.

#### SYNC IN (BNC)

To use the sync signal fed through this connector, set RGB SYNC to EXT SYNC in the menu.

# **Using on-screen menus**

The flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings. The boxed number is for instructions on the next page.



#### **Operating through menus**

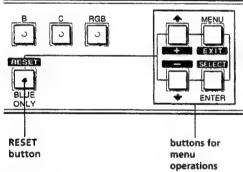
There are five buttons for menu operations on the front of the monitor. To display the main menu, first press MENU. The buttons you can use appear at the bottom of the menu screen

#### **Functions of the buttons**

| Button          | To select menu<br>item        | To adjust menu item<br>selected                             |
|-----------------|-------------------------------|---|
| MENU<br>EXIT    | return to the previous menu   | return to the previous menu                                 |
| ENTER<br>SELECT | decide a selected item        | select an item  |
| t<br>C          | move the cursor (►) upwards   | increase selected value                                     |
| †               | move the cursor (►) downwards | decrease selected value                                     |
| RESET           |                               | reset current adjustment<br>value to the factory<br>setting |

(The above items in white type correspond to the marks in the menu.)

#### front of monitor



#### 1 Main menu

Select an item and press ENTER to go to the following menu.

#### 2 CHROMA SET UP menu

Set to ON to adjust the internal decoder for CHROMA and PHASE after AUTO ADJUST (6). [OFF]

#### **3** CAPTION VISION menu

The monitor can display the signal with Caption Vision. To display it, select the caption type in this menu.

[OFF]

#### 4 USER CONFIG 1 menu

Select an item to adjust. To go to the USER CONFIG 2 menu select NEXT PAGE.

#### 5 USER CONFIG 2 menu

Select an item to adjust. To go to the USER CONFIG 1 menu select PREVIOUS PAGE.

#### 6 AUTO ADJUST screen

Select the color bar signal (full, SMPTE, EIA) and press ENTER to start auto adjusting for CHROMA SET UP.

#### 7 COLOR SYSTEM DISPLAY menu

Select the color system display mode. In AUTO, the kind of color system being used appears on the screen each time you change the signal input. [AUTO]

#### 8 V HOLD screen

Adjust the vertical hold if the picture rolls vertically. When you cannot read the display, select the input that is not connected.

#### 9 RGB SYNC menu

Select SYNC ON G to operate the monitor on the sync signal from the displayed green signal.

Select EXT SYNC to operate the monitor on an external sync signal fed through the RGB SYNC connector.

[SYNC ON G]

#### 10 NTSC SETUP LEVEL menu

Select the NTSC setup level from two modes. The 7.5 setup level is mainly used in north America. The 0 setup level is mainly used in Japan. [7.5]

#### 11 LANGUAGE menu

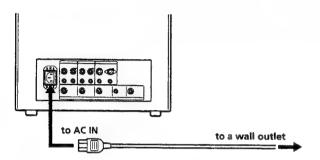
You can select the menu language from among the five languages (English, German, French, Italian, Spanish) on the menu. [ENGLISH]

([] indicates the factory setting position.)

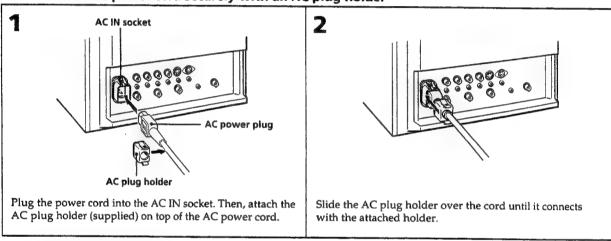
# **Power sources**

#### **House current**

Connect the AC power cord (supplied) to the AC IN socket and to a wall outlet.



#### To connect an AC power cord securely with an AC plug holder

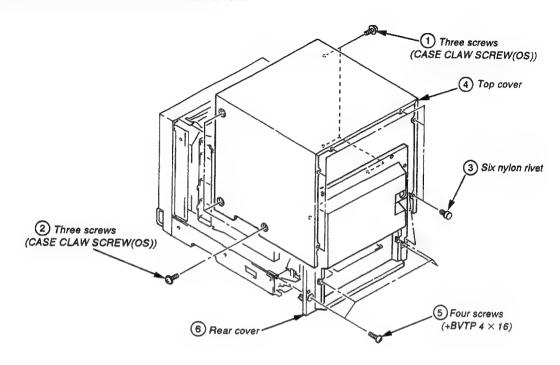


#### To remove the AC power cord

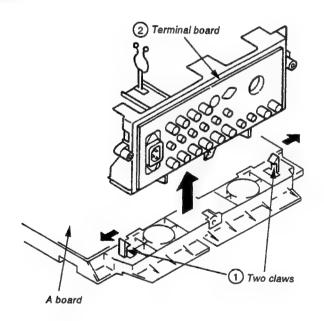
Pull out AC plug holder by squeezing the left and right sides.

# SECTION 2 DISASSEMBLY

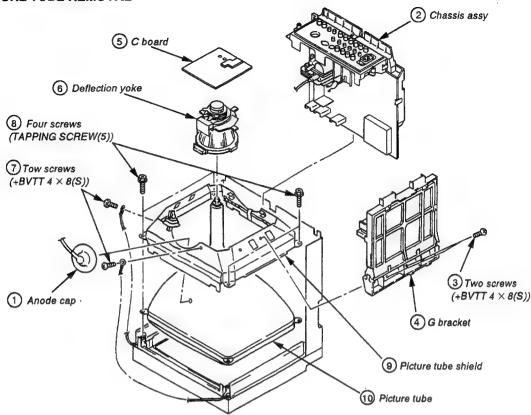
#### 2-1. TOP COVER AND REAR COVER REMOVAL



#### 2-2. TERMINAL BOARD REMOVAL



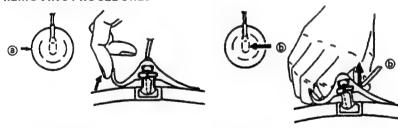
#### 2-3. PICTURE TUBE REMOVAL



#### REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

#### REMOVING PROCEDURES

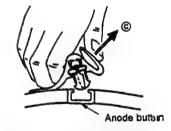


- direction indicated by the arrow @.
- ① Turn up one side of the rubber cap in the ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).

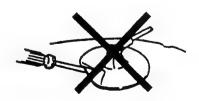
#### HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





3 When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it is the direction of the arrow ©.



# SECTION 3 SET-UP ADJUSTMENTS

#### 3-1. PREPARATIONS (1)

#### Service Mode

This set is provided with a switch for service on the front panel that can be used to make various adjustments. The operation method of this switch is explained in detail below.

#### 1. ENTERING THE SERVICE MODE

Simultaneously press the [ENTER] key and the [DEGAUSS] key shown on the display of the menu.

#### 2. SERVICE MODE DISPLAY

| (1) | (5) | (4) | (3) | (6) |
|-----|-----|-----|-----|-----|
| (2) |     |     |     |     |

Range of Sevice Mode Display

- (1) The service items are largely classified into 16 types displayed by titles.
- (2) The names of the service items or READ / WRITE guidance, etc., are displayed. The names are dispalyed to the left and the guidance to the right.
- (3) This is the serial number for each of the service items. 1-120.
- (4) This is the adjustment data for the servise items that are now stored in the RAM. Adjustments can be made by changing these values, but as long as nothing is written to the ROM the adjustment values will be erased by turning off the power or by reading, so please be careful.
- (5) When the adjustment data than is now displayed is identical with the data in the ROM, the cursor ( > ) is displayed.
- (6) The present status is displayed.
  - [\*]: Writing to the ROM. Make sure not to turn off the power while this display is on.
  - [?]: ROM reading error. In this case, an image is output with the standard adjustment data that the microcomputer itself possesses.
  - [¿]: Problem in the I2C bus.

#### 3. FINISHING THE SERVICE MODE

Simultaneously press the [ENTER] key and the [DEGAUSS] key shown on the display of the menu.

#### 4. EASY ON / OFF OF THE SERVICE MODE

If once entering the service mode after having turned on the power, easy ON / OFF is possible by once more pressing the A, B or C switch on the front panel (the LED lights) as long as the power is not turned off or as long as the service mode is not finished.

# 5. CHANGE OF POSITION OF THE SERVICE MODE DISPLAY

If the switch is continuously pressed when turning on in the above easy mode, the display position moves in the V direction. This method is used when the display is outside of the effective screen area.

#### 6. CHANGE OF SERVICE ITEMS

The items are returned with the [MENU] key and forwarded with the [ENTER] key. When a key is continuously pressed, the operation will be repeated.

#### 7. CHANGE OF SERVICE DATA

The service data is made larger with the  $[\uparrow]$  key and smaller with the  $[\downarrow]$  key. When continuously pressing the keys, the operation will be repeated.

#### 8. READING OF SERVICE DATA

When reading data from the ROM to the RAM, press the [B /D] key once and check than the READ display is shown in the guidance, and then press the [B / O] key once again. The adjustment data that is written will return to its previous state, so please be careful.

#### 9. WRITING OF SERVICE DATA

When writing data from the RAM to the ROM, press the [DEGAUSS] key once and check that the WRITE display is shown in the guidance, and then press the [DEGAUSS] key once again. Not only the displayed data will be written, but all data, so please be careful.

#### 10. CARRYING OUT FACTORY RESETTING

In case the adjustment data has been destroyed for some reason, and you keep pressing the  $[B\/O]$  key at the beginning of the above reading, the READ guidance will change to FACTRY RESET guidance in approximately 3 seconds so that the factory resetting can be carried out. By once again pressing the  $[B\/O]$  key after this, resetting will be carried out ([\*] will be displayed as status) and factory resetting will be executed. However, in case the data available at the time of shipment from the factory has been destroyed, or if the ROM has been replaced, etc., or if factory setting mentioned later on has been carried out, factory resetting is executed.

#### 11. CARRYING OUT FACTORY SETTING

Make sure to make possible the above factory resetting by making a copy of the adjustment data when replacing the ROM. If you keep pressing the [DEGAUSS] key at the beginning of the above writing, the WRITE guidance will change into FACTORY RESET guidance after approximately 3 seconds. By once again pressing the [DEGAUSS] key after this, setting will be carried out ([\*]will be dispalyed as status) and the data will be copied. By carrying out this operation, the selection items of the menu and the adjustment values will be reset to the standard conditions, so please be careful. If this operation is carried out once, it cannot be carried out again, but the FACTORY SET FLAG (No. 120) in the service mode can be set to 1.

#### SERVICE DATA STANDARD

SERVICE MAP Ver 5 . x (1-120)

| VIDEO PHASE  |      |          | ERVICE ITEM        | MAX | 14" | 20"           | NO. |              | SERVICE ITEM            | MAX         | 14' | " 20"         |
|--|------|----------|--------------------|-----|-----|---------------|-----|--------------|-------------------------|-------------|-----|---------------|
| VIDEO PHASE   255   161   157   62   BIAS (GREEN)   1023   303   30   V SIZE   255   161   155   63   BIAS (BLUE)   1023   304   4   V CENTER   255   121   16   64   GAIN (RED)   1023   66   GAIN (GREEN)   1023   66   GAIN (GREEN)   1023   66   GAIN (GREEN)   1023   67   GAIN (GREEN)   10   | NOF  | R 50 DEF | H FREQUENCY        |     |     |               | 61  | C/T1 ??00K   | BIAS (RED)              | 1023        | 443 | 443           |
| 3  |      |          | VIDEO PHASE        | 255 | 141 | 127           | 62  |              | BIAS (GREEN)            |             |     |               |
| 4   V CENTER   255   122   116   64   GAIN (RED)   1023   705   5   NOR 60 DEF   H FREQUENCY   255   590   112   65   GAIN (GREEN)   1023   705   6   VIDEO PHASE   255   130   123   66   GAIN (GREEN)   1023   725   7   V SIZE   255   131   107   67   67   67   67   67   8   V CENTER   255   132   111   68   B / O (GREEN)   255   132   9   NOR DEF   H SIZE   255   111   102   69   C / T2 / 700K   320K SW   1   C   10   PIN PHASE   255   130   110   69   C / T2 / 700K   320K SW   1   C   11   PIN AMP   255   112   122   71   BIAS (GREEN)   1023   505   12   U/L-PIN   255   126   155   72   BIAS (GREEN)   1023   505   13   SEXY   255   128   128   73   GAIN (RED)   1023   505   14   V LINEARITY   255   132   87   74   GAIN (RED)   1023   505   15   V BOW   463   32   32   75   GAIN (BLUE)   1023   605   16   V ANGLE   463   32   32   76   GAIN (BLUE)   1023   605   17   U/SDEF   V SIZE (69)   255   141   134   77   B / O (GREEN)   255   188   81   V SIZE (69)   255   161   131   78   W / B   SUB CON (4: 3, NORMAL)   255   126   135   30   19   H SIZE   255   115   89   79   SUB CON (4: 3, NORMAL)   255   126   137   21   I PIN AMP   255   128   80   81   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   84   SUB CON (6: 9, NORMAL)   255   136   131   30   30   SUB CON (6: 9, NORMAL)   255   137   131   30   40   SUB CON (6: 9, NORMAL)   255 |      |          |                    | 255 | 165 | 155           | 63  |              | BIAS (BLUE)             |             |     |               |
| S   NOR 60 DEF   H FREQUENCY   255   30   112   65   GAIN (GREEN)   1023   302   75   75   75   75   75   75   75   7  |      |          | V CENTER           | 255 | 122 | 116           | 64  |              | <del></del>             |             |     |               |
| 6   VIDEO PHASE   255   120   123   66   GAIN (BLUE)   1023   535   727   7   V SIZE   255   171   101   67   B / D (GRED)   255   172   173   8   V CENTER   255   128   111   68   B / D (GREEN)   255   172   173   9   NOR DEF   H SIZE   255   111   102   69   C / T2 7700K   3200K SW   1   1   1   1   1   1   1   1   1   | NOF  | R 60 DEF | H FREQUENCY        | 255 | 90  | 112           | 65  |              |                         | _           |     |               |
| 7   V SIZE   255   157   161   67   B JO (RED)   255   255   236   8   V CENTER   255   136   167   B JO (REDN)   255   255   236   100   D   D   D   D   D   D   D   D   D  |      |          |                    |     |     |               |     |              |                         | <del></del> |     |               |
| 8 V CENTER 255 128 111 68 B J O COREEN) 255 128 129 NOR DEF H SIZE 255 111 102 69 C/T2 700K 320K SW 1 C C 10 PIN PHASE 255 116 102 70 BIAS (RED) 1023 265 111 PIN AMP 255 112 122 71 BIAS (GREEN) 1023 265 126 125 126 125 126 125 126 125 126 125 126 125 126 127 BIAS (GREEN) 1023 459 131 SEXY 255 128 128 127 GAIN (RED) 1023 459 131 SEXY 255 128 128 128 73 GAIN (RED) 1023 459 131 V SEZE (SO) 255 128 128 128 73 GAIN (RED) 1023 370 155 V SDOW 8:63 32 32 75 GAIN (RED) 1023 370 155 V SDOW 8:63 32 32 75 GAIN (BLUE) 1023 370 155 V SDOW 8:63 32 32 75 GAIN (BLUE) 1023 370 155 V SDOW 8:63 32 32 76 B J O (RED) 1023 370 155 V SDOW 8:63 32 32 76 B J O (RED) 1023 370 155 V SDOW 8:63 32 32 76 B J O (RED) 1023 370 155 V SDOW 8:63 32 32 76 B J O (RED) 1023 370 155 V SDOW 8:63 32 32 76 B J O (RED) 1023 370 155 V SDOW 8:63 32 32 76 B J O (RED) 1023 370 155 V SDOW 8:63 32 32 76 B J O (RED) 1023 370 155 V SDOW 8:63 32 32 76 B J O (RED) 1023 370 155 V SDOW 8:63 32 32 76 B J O (RED) 1023 370 155 V SDOW 8:63 32 32 76 B J O (RED) 1023 370 155 V SDOW 8:63 125 V SDOW 8:63 V SDOW 8 |      |          |                    |     |     | _             |     |              |                         | +           |     |               |
| 9 NOR DEF H SIZE   |      |          |                    | 1   |     |               |     |              |                         |             |     |               |
| Description  | NOF  | R DEF    |                    |     |     |               |     | C / T2 2200K |                         | 233         |     | $\rightarrow$ |
| 11   |      |          |                    |     |     |               |     | 0/12001      | <u> </u>                | 1023        |     |               |
| 12   |      |          |                    |     |     |               |     | <del></del>  |                         |             |     |               |
| 13   |      |          |                    |     |     |               |     |              |                         |             | _   | _             |
| 14   |      |          |                    |     |     |               |     |              | <del> </del>            |             |     |               |
| 15   |      |          |                    |     |     |               |     |              |                         |             |     |               |
| 16   |      |          |                    | _   | _   |               |     |              |                         |             | _   |               |
| 17   U/SDEF  |      |          |                    |     |     |               |     |              |                         |             |     |               |
| 18   | LICI | DEC      |                    |     |     |               |     |              |                         |             | _   | _             |
| 19   | 0/31 | DEF      |                    |     | _   | -             |     |              |                         |             |     |               |
| Description  |      |          |                    |     |     |               |     | W/B          |                         |             |     |               |
| 22   |      |          |                    | _   | _   |               |     |              |                         |             |     |               |
| 22 16.9 NOR DEF V SIZE (50) 255 81 89 82 SUB BRIGHT 255 72 23 V SIZE (60) 255 85 100 83 USER B / O (RED) 255 122 24 PIN PHASE 255 1131 120 84 USER B / O (RED) 255 122 25 PIN AMP 255 64 68 85 OTHER OSD POSITION 255 122 26 UJL PIN 255 132 136 86 V HOLD 255 128 27 16.9 US DEF V SIZE (50) 255 14 19 87 H BLANKING 255 128 28 V SIZE (60) 255 135 135 88 V BLANKING (START)(50) 255 128 29 PIN PHASE 255 141 121 89 16.9 BLANKING START(50) 255 63 30 PIN AMP 255 47 55 90 16.9 BLANKING START(50) 255 131 31 COMPONENT SUB PHASE 255 140 140 91 V BLANKING (START)(50) 255 131 32 SUB CHROMA (NORMAL) 255 104 104 92 16.9 BLANKING START(60) 255 141 33 SUB CHROMA (SMPTE) 255 168 168 93 16.9 BLANKING BD(60) 255 137 34 R.Y LEVEL 255 155 155 94 H DELAY 255 163 35 NTSC BURST GATE PULSE WIDTH 255 22 22 95 V DELAY 255 163 36 CRYSTAL 255 151 19 66 H PP DSITION 255 163 37 PHASE (ACC OFF) 255 112 112 98 HP WIDTH (NORMAL) 255 96 40 CHROMA (NORMAL) 255 141 141 99 SYSTEM SDI AUDIO 7 255 137 41 CHROMA (ACC OFF) 255 121 112 98 HP WIDTH (NORMAL) 255 36 121 121 129 8 HP WIDTH (NORMAL) 255 36 121 121 129 8 HP WIDTH (NORMAL) 255 37 121 121 129 8 HP WIDTH (NORMAL) 255 36 121 121 129 8 HP WIDTH (NORMAL) 255 36 121 121 129 8 HP WIDTH (NORMAL) 255 36 121 121 129 8 HP WIDTH (NORMAL) 255 36 121 121 129 8 HP WIDTH (NORMAL) 255 36 121 121 129 8 HP WIDTH (NORMAL) 255 36 121 121 129 8 HP WIDTH (NORMAL) 255 37 121 121 129 8 HP WIDTH (NORMAL) 255 37 121 121 129 8 HP WIDTH (NORMAL) 255 37 121 121 129 8 HP WIDTH (NORMAL) 255 37 121 121 129 8 HP WIDTH (NORMAL) 255 37 121 121 129 8 HP WIDTH (NORMAL) 255 37 121 121 129 8 HP WIDTH (NORMAL) 255 37 121 121 129 8 HP WIDTH (NORMAL) 255 37 121 121 121 121 121 121 121 121 121 12  |      |          |                    |     | _   |               |     |              |                         |             |     | 165           |
| 23   |      |          |                    |     |     |               |     |              |                         | 255         | 93  | 93            |
| 24 PIN PHASE   | 16:9 | NOR DEF  |                    |     |     |               |     |              |                         | 255         | 71  | 71            |
| 25 PIN AMP 255 64 68 85 OTHER OSD POSITION 255 128 26 U/L PIN 255 128 128 60 V/HOLD 255 128 128 129 136 86 V/HOLD 255 128 128 129 136 86 V/HOLD 255 128 128 129 136 86 V/HOLD 255 128 128 129 136 136 V/SIZE (60) 255 63 128 128 128 128 136 136 V/SIZE (60) 255 135 138 136 139 139 139 139 139 139 139 139 139 139   |      |          |                    |     |     |               |     |              |                         |             |     |               |
| 26   16-9 U/L PIN   255   132   136   86   V HOLD   255   128   271   16-9 U/S DEF   V SIZE (50)   255   41   59   87   H BLANKING (50)   255   282   28   V SIZE (60)   255   35   88   V BLANKING (50)   255   37   30   PIN PHASE   255   124   122   89   16 : 9 BLANKING START (50)   255   37   30   PIN AMP   255   47   55   90   16 : 9 BLANKING (60)   255   178   27   27   27   27   27   27   27  |      |          |                    |     |     |               |     |              | USER B / O (GREEN)      | 255         | 125 | 125           |
| 27 16:9 U/S DEF V SIZE (50) 255 41 59 87 H BLANKING (50) 255 68 28 V SIZE (60) 255 35 55 88 V BLANKING (50) 255 65 29 PIN PHASE 255 124 122 89 16:9 BLANKING START(50) 255 137 30 PIN AMP 255 47 55 90 16:9 BLANKING START(50) 255 163 31 COMPONENT SUB PHASE 255 140 140 91 V BLANKING START(60) 255 163 32 SUB CHROMA (NORMAL) 255 104 104 92 16:9 BLANKING START(60) 255 147 33 SUB CHROMA (SMPTE) 255 168 168 93 16:9 BLANKING START(60) 255 147 34 R-Y LEVEL 255 155 155 155 94 H DELAY 255 163 35 NTSC BURST GATE PULSE WIDTH 255 22 29 55 V DELAY 255 163 36 CRYSTAL 255 151 196 HP POSITION 255 163 37 PHASE (NORMAL) 255 103 103 97 HP WIDTH (NORMAL) 255 103 38 PHASE (ACC OFF) 255 112 112 98 HP WIDTH (H /V DELAY) 255 103 39 B-Y PHASE 255 114 114 199 SYSTEM SDI AUDIO 7 3. 40 CHROMA (NORMAL) 255 123 123 100 358TRAP FILTER 1 CHROMA (NORMAL) 255 134 141 99 SYSTEM SDI AUDIO 7 4. 41 CHROMA (NORMAL) 255 157 187 102 CAPTION VISION 7 4. 42 R-Y LEVEL 255 57 187 102 CAPTION VISION 7 4. 43 NTSC 443 CRYSTAL 255 65 65 103 COMPONENT LEVEL 3 2 44 PHASE (ACC OFF) 255 140 140 106 COLOR SYSTEM DISPLAY 3 6. 45 PHASE (ACC OFF) 255 177 170 COLOR TEMPERATURE 3 6. 46 B-Y PHASE (ACC OFF) 255 171 171 170 COLOR TEMPERATURE 3 6. 47 CHROMA (NORMAL) 255 180 100 100 RGB SYNC 11 CHROMA SET UP 1 1 CHROMA (NORMAL) 255 171 171 171 171 171 171 171 171 171 1  |      |          |                    | _   |     | 68            | 85  | OTHER        |                         | 255         | 129 | 129           |
| 28   |      |          |                    |     | 132 | $\overline{}$ |     |              | V HOLD                  | 255         | 128 | 128           |
| PIN PHASE   255   124   122   89   16 9 BLANKING START(50)   255   37   30   PIN AMP   255   47   55   90   16 9 BLANKING END(50)   255   151   101   102   16 9 BLANKING END(50)   255   161   102   16 9 BLANKING END(50)   255   161   104   104   105    | 16:9 | U/S DEF  |                    |     | _   | _             | 87  |              | H BLANKING              | 255         | 68  | 68            |
| Second Component Sub Phase   |      |          |                    | 255 |     |               | 88  |              | V BLANKING (50)         | 255         | 63  | 63            |
| COMPONENT SUB PHASE   255   140   140   91   V BLANKING (60)   255   173   22   SUB CHROMA (NORMAL)   255   104   104   92   16:9 BLANKING START(60)   255   407   233   33   SUB CHROMA (SMPTE)   255   168   168   93   16:9 BLANKING START(60)   255   246   248   248   249      |      |          | ~                  | 255 | 124 | 122           |     |              | 16:9 BLANKING START(50) | 255         | 37  | 37            |
| SUB CHROMA (NORMAL)   255   104   104   92   16:9 BLANKING START(60)   255   40   33   SUB CHROMA (SMPTE)   255   168   168   93   16:9 BLANKING END(60)   255   215   34   R-Y LEVEL   255   155   594   H DELAY   255   165   35   NTSC   BURST GATE PULSE WIDTH   255   22   22   95   V DELAY   255   165   36   CRYSTAL   255   51   51   96   HP POSITION   255   37   PHASE (NORMAL)   255   103   103   97   HP WIDTH (NORMAL)   255   38   PHASE (ACC OFF)   255   121   112   98   HP WIDTH (H / V DELAY)   255   39   B-Y PHASE   255   141   141   99   SYSTEM   SDI AUDIO   7   7   5   5   5   5   5   5   5   5   |      |          |                    | 255 | 47  | 55            | 90  |              | 16:9 BLANKING END(50)   | 255         | 163 | 163           |
| SUB CHROMA (NORMAL)   255   104   104   92   16 : 9 BLANKING START(60)   255   405   33   3   3   3   3   3   3   4   3   3  | COV  | MPONENT  |                    |     |     |               | 91  |              | V BLANKING (60)         | 255         | 117 | 1117          |
| 34 R-Y LEVEL 255 155 155 94 H DELAY 255 155 35 NTSC BURST GATE PULSE WIDTH 255 22 22 95 V DELAY 255 103 36 CRYSTAL 255 151 51 96 HP POSITION 255 133 37 PHASE (NORMAL) 255 103 103 97 HP WIDTH (NORMAL) 255 93 38 PHASE (ACC OFF) 255 112 112 98 HP WIDTH (NORMAL) 255 39 40 CHROMA (NORMAL) 255 123 123 100 358TRAP FILTER 1 CHROMA (NORMAL) 255 123 123 100 358TRAP FILTER 1 CHROMA (NORMAL) 255 123 123 100 358TRAP FILTER 1 CHROMA (ACC OFF) 255 20 20 101 ACC 1 CAPTION VISION 7 CAPTION VISI |      |          |                    |     | 104 | 104           | 92  |              | 16:9 BLANKING START(60) |             |     |               |
| R-Y LEVEL   255   155   94   |      |          | SUB CHROMA (SMPTE) | 255 | 168 | 168           | 93  |              | 16:9 BLANKING END(60)   | 255         | 215 | 215           |
| 35   NTSC   BURST GATE PULSE WIDTH   255   22   22   95   V DELAY   255   103   10   |      |          | R-Y LEVEL          | 255 | 155 | 155           | 94  |              | H DELAY                 |             |     |               |
| CRYSTAL   255   51   51   96   HP POSITION   255   136   37   PHASE (NORMAL)   255   103   103   97   HP WIDTH (NORMAL)   255   90   38   PHASE (ACC OFF)   255   112   112   98   HP WIDTH (H / V DELAY)   255   35   39   B-Y PHASE   255   141   141   99   SYSTEM   SDI AUDIO   7   7   7   7   7   7   7   7   7  | NTS  | SC       |                    | 255 | 22  | 22            | 95  |              | V DELAY                 |             |     |               |
| PHASE (NORMAL)   255   103   103   97     HP WIDTH (NORMAL)   255   90   38   PHASE (ACC OFF)   255   112   112   98   HP WIDTH (H / V DELAY)   255   33   PHASE (ACC OFF)   255   141   141   99   SYSTEM   SDI AUDIO   7   5   40   CHROMA (NORMAL)   255   223   123   100   358TRAP FILTER   1   C   41   CHROMA (ACC OFF)   255   20   20   101   ACC   11   C   42   R-Y LEVEL   255   87   87   102   CAPTION VISION   7   C   43   NTSC 443   CRYSTAL   255   65   65   103   COMPONENT LEVEL   3   22   24   PHASE (NORMAL)   255   80   80   104   NTSC SETUP LEVEL   1   C   45   PHASE (ACC OFF)   255   75   75   105   CHROMA SET UP   1   C   46   B-Y PHASE   255   140   140   106   COLOR SYSTEM DISPLAY   3   C   47   CHROMA (NORMAL)   255   17   117   107   COLOR TEMPERATURE   3   C   48   CHROMA (ACC OFF)   255   87   87   108   USER PRESET   1   C   48   CHROMA (ACC OFF)   255   75   75   105   CHROMA SET UP   1   C   50   PAL   PHASE (NORMAL)   255   100   100   109   LANGUAGE   7   C   50   PAL   PHASE (NORMAL)   255   72   72   111   OPTION BOARD   7   C   50   PAL   PHASE (NORMAL)   255   72   72   111   OPTION BOARD   7   C   50   PAL   PHASE (ACC OFF)   255   72   72   111   OPTION BOARD   7   C   50   PAL   PHASE (ACC OFF)   255   72   72   111   OPTION BOARD   7   C   50   PAL   PHASE (ACC OFF)   255   72   72   111   OPTION BOARD   7   C   50   PAL   PHASE (ACC OFF)   255   105   105   105   112   AGING MODE   1   C   50   CHROMA (ACC OFF)   255   105   105   112   AGING MODE   1   C   50   CHROMA (ACC OFF)   255   100   1   |      |          | CRYSTAL            | 255 | 51  | 51            | 96  |              | HP POSITION             |             |     |               |
| 38   |      |          | PHASE (NORMAL)     | 255 | 103 | 103           | 97  |              | HP WIDTH (NORMAL)       |             | _   | _             |
| 39   B-Y PHASE   255   141   141   99   SYSTEM   SDI AUDIO   7   5   |      |          | PHASE (ACC OFF)    | 255 | 112 | 112           | 98  |              |                         |             |     |               |
| CHROMA (NORMAL)   255   123   123   100   358TRAP FILTER   1   1   1   1   1   1   1   1   1   |      |          | B-Y PHASE          | 255 | 141 | 141           | 99  | SYSTEM       |                         |             |     | _             |
| 41         CHROMA (ACC OFF)         255         20         20         101         ACC         1         0           42         R-Y LEVEL         255         87         87         102         CAPTION VISION         7         0           43         NTSC 443         CRYSTAL         255         65         65         103         COMPONENT LEVEL         3         2           44         PHASE (NORMAL)         255         80         80         104         NTSC SETUP LEVEL         1         0           45         PHASE (ACC OFF)         255         75         75         105         CHROMA SET UP         1         0           46         B-Y PHASE         255         140         140         106         COLOR SYSTEM DISPLAY         3         0           47         CHROMA (NORMAL)         255         117         117         107         COLOR TEMPERATURE         3         0           48         CHROMA (NORMAL)         255         87         81         108         USER PRESET         1         0           49         R-Y LEVEL         255         100         100         109         LANGUAGE         7         0           50   |      |          | CHROMA (NORMAL)    | 255 | 123 | 123           | 100 |              | 358TRAP FILTER          |             | _   |               |
| 42         R-Y LEVEL         255         87         87         102         CAPTION VISION         7         0           43         NTSC 443         CRYSTAL         255         65         65         103         COMPONENT LEVEL         3         2           44         PHASE (NORMAL)         255         80         80         104         NTSC SETUP LEVEL         1         0           45         PHASE (ACC OFF)         255         75         75         105         CHROMA SET UP         1         0           46         B-Y PHASE         255         140         140         106         COLOR SYSTEM DISPLAY         3         0           47         CHROMA (NORMAL)         255         117         117         107         COLOR TEMPERATURE         3         0           48         CHROMA (ACC OFF)         255         87         87         108         USER PRESET         1         0           49         R-Y LEVEL         255         100         100         109         LANGUAGE         7         0           50         PAL         PHASE (NORMAL)         255         87         87         110         RGB SYNC         1         0 <t< td=""><td></td><td></td><td>CHROMA (ACC OFF)</td><td>255</td><td>20</td><td>20</td><td>101</td><td></td><td></td><td><del></del></td><td>_</td><td></td></t<>  |      |          | CHROMA (ACC OFF)   | 255 | 20  | 20            | 101 |              |                         | <del></del> | _   |               |
| 43         NTSC 443         CRYSTAL         255         65         65         103         COMPONENT LEVEL         3         2           44         PHASE (NORMAL)         255         80         80         104         NTSC SETUP LEVEL         1         0           45         PHASE (ACC OFF)         255         75         75         105         CHROMA SET UP         1         0           46         B-Y PHASE         255         140         140         106         COLOR SYSTEM DISPLAY         3         0           47         CHROMA (NORMAL)         255         117         117         107         COLOR TEMPERATURE         3         0           48         CHROMA (ACC OFF)         255         87         87         108         USER PRESET         1         0           49         R-Y LEVEL         255         100         100         109         LANGUAGE         7         0           50         PAL         PHASE (NORMAL)         255         87         87         110         RGB SYNC         1         0           51         PHASE (ACC OFF)         255         72         72         111         OPTION BOARD         7         0  |      |          | R-Y LEVEL          |     |     |               |     |              |                         |             | 1   |               |
| 44         PHASE (NORMAL)         255         80         80         104         NTSC SETUP LEVEL         1         1         1         1         2         45         PHASE (ACC OFF)         255         75         75         105         CHROMA SET UP         1         2         1         1         1         1         1         1         2         1         1         2         1         1         2         1         1         1         2         2         2         1         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2 <t< td=""><td>NTS</td><td>SC 443</td><td></td><td>_</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   | NTS  | SC 443   |                    | _   | _   |               |     |              |                         |             |     |               |
| 45         PHASE (ACC OFF)         255         75         75         105         CHROMA SET UP         1         0           46         B-Y PHASE         255         140         140         106         COLOR SYSTEM DISPLAY         3         0           47         CHROMA (NORMAL)         255         117         117         107         COLOR TEMPERATURE         3         0           48         CHROMA (ACC OFF)         255         87         87         108         USER PRESET         1         0           49         R-Y LEVEL         255         100         100         109         LANGUAGE         7         0           50         PAL         PHASE (NORMAL)         255         87         87         110         RGB SYNC         1         0           51         PHASE (ACC OFF)         255         72         72         111         OPTION BOARD         7         0           52         B-Y PHASE         255         105         105         112         AGING MODE         1         0           53         CHROMA (NORMAL)         255         141         141         113         PAL-M         1         0           54   |      |          |                    |     |     |               |     |              |                         |             |     |               |
| 46         B-Y PHASE         255         140         140         106         COLOR SYSTEM DISPLAY         3         C           47         CHROMA (NORMAL)         255         117         117         107         COLOR TEMPERATURE         3         C           48         CHROMA (ACC OFF)         255         87         87         108         USER PRESET         1         C           49         R-Y LEVEL         255         100         100         109         LANGUAGE         7         C           50         PAL         PHASE (NORMAL)         255         87         87         110         RGB SYNC         1         C           51         PHASE (ACC OFF)         255         72         72         111         OPTION BOARD         7         C           52         B-Y PHASE         255         105         105         112         AGING MODE         1         C           53         CHROMA (NORMAL)         255         141         141         113         PAL-M         1         C           54         CHROMA (ACC OFF)         255         90         90         114         MODEL         15         *           55         R-  |      |          |                    |     |     |               |     |              |                         |             |     |               |
| 47         CHROMA (NORMAL)         255         117         117         107         COLOR TEMPERATURE         3         0           48         CHROMA (ACC OFF)         255         87         87         108         USER PRESET         1         0           49         R-Y LEVEL         255         100         100         109         LANGUAGE         7         0           50         PAL         PHASE (NORMAL)         255         87         87         110         RGB SYNC         1         0           51         PHASE (ACC OFF)         255         72         72         111         OPTION BOARD         7         0           52         B-Y PHASE         255         105         105         112         AGING MODE         1         0           53         CHROMA (NORMAL)         255         141         141         113         PAL-M         1         0           54         CHROMA (ACC OFF)         255         90         90         114         MODEL         15         *           55         R-Y LEVEL         255         120         120         116         COLOR TEMP DISP 1         127         0           56         SEC  |      |          |                    |     |     |               |     |              |                         |             |     | _             |
| 48         CHROMA (ACC OFF)         255         87         87         108         USER PRESET         1         C           49         R-Y LEVEL         255         100         100         109         LANGUAGE         7         C           50         PAL         PHASE (NORMAL)         255         87         87         110         RGB SYNC         1         C           51         PHASE (ACC OFF)         255         72         72         111         OPTION BOARD         7         C           52         B-Y PHASE         255         105         105         112         AGING MODE         1         C           53         CHROMA (NORMAL)         255         141         141         113         PAL-M         1         C           54         CHROMA (ACC OFF)         255         90         90         114         MODEL         15         *           55         R-Y LEVEL         255         120         120         115         COLOR TEMP DISP 1         127         65           56         SECAM         CHROMA         255         120         120         116         COLOR TEMP DISP 2         127         93           57 <td></td>   |      |          |                    |     |     |               |     |              |                         |             |     |               |
| 49         R-Y LEVEL         255 100 100 109         LANGUAGE         7         C           50 PAL         PHASE (NORMAL)         255 87 87 110         RGB SYNC         1         C           51         PHASE (ACC OFF)         255 72 72 111         OPTION BOARD         7         C           52         B-Y PHASE         255 105 105 112         AGING MODE         1         C           53         CHROMA (NORMAL)         255 141 141 113         PAL-M         1         C           54         CHROMA (ACC OFF)         255 90 90 114         MODEL         15 **           55         R-Y LEVEL         255 120 120 115         COLOR TEMP DISP 1         127 65           56         SECAM         CHROMA         255 120 120 116         COLOR TEMP DISP 2         127 93           57         R-Y LEVEL         255 229 229 117         REMOTE ADDRESS         127 0         127 0           58         COLOR BALANCE (R-Y)         255 116 116 118         RESERVED 1         1         0           59         COLOR BALANCE (B-Y)         255 98 98 119         RESERVED 2         1         0   |      |          |                    |     |     |               |     |              |                         | -           |     |               |
| 50 PAL         PHASE (NORMAL)         255         87         87 110         RGB SYNC         1         C           51 PHASE (ACC OFF)         255         72         72 111         OPTION BOARD         7         C           52 B-Y PHASE         255         105 105 112         AGING MODE         1         C           53 CHROMA (NORMAL)         255 141 141 113         PAL-M         1         C           54 CHROMA (ACC OFF)         255 90 90 114         MODEL         15 **           55 R-Y LEVEL         255 120 120 115         COLOR TEMP DISP 1         127 65           56 SECAM         CHROMA         255 120 120 116         COLOR TEMP DISP 2         127 93           57 R-Y LEVEL         255 229 229 117         REMOTE ADDRESS         127 0           58 COLOR BALANCE (R-Y)         255 116 116 118         RESERVED 1         1         0           59 COLOR BALANCE (B-Y)         255 98 98 119         RESERVED 2         1         0   |      |          |                    | _   |     |               |     |              |                         |             |     |               |
| 51         PHASE (ACC OFF)         255         72         72         111         OPTION BOARD         7         C           52         B-Y PHASE         255         105         105         112         AGING MODE         1         C           53         CHROMA (NORMAL)         255         141         141         113         PAL-M         1         C           54         CHROMA (ACC OFF)         255         90         90         114         MODEL         15         *           55         R-Y LEVEL         255         120         120         115         COLOR TEMP DISP 1         127         65           56         SECAM         CHROMA         255         120         120         116         COLOR TEMP DISP 2         127         93           57         R-Y LEVEL         255         229         229         117         REMOTE ADDRESS         127         0           58         COLOR BALANCE (R-Y)         255         116         116         118         RESERVED 1         1         0           59         COLOR BALANCE (B-Y)         255         98         98         119         RESERVED 2         1         0   | PAI  | L        | L L                |     |     |               |     |              |                         |             |     | _             |
| 52         B-Y PHASE         255         105         105         112         AGING MODE         1         C           53         CHROMA (NORMAL)         255         141         141         113         PAL-M         1         C           54         CHROMA (ACC OFF)         255         90         90         114         MODEL         15         *           55         R-Y LEVEL         255         120         120         115         COLOR TEMP DISP 1         127         65           56         SECAM         CHROMA         255         120         120         116         COLOR TEMP DISP 2         127         93           57         R-Y LEVEL         255         229         229         117         REMOTE ADDRESS         127         0           58         COLOR BALANCE (R-Y)         255         116         116         118         RESERVED 1         1         0           59         COLOR BALANCE (B-Y)         255         98         98         119         RESERVED 2         1         0   |      |          |                    |     |     |               |     |              |                         |             |     |               |
| 53         CHROMA (NORMAL)         255         141         141         113         PAL-M         1         C           54         CHROMA (ACC OFF)         255         90         90         114         MODEL         15         **           55         R-Y LEVEL         255         120         120         115         COLOR TEMP DISP 1         127         65           56         SECAM         CHROMA         255         120         120         116         COLOR TEMP DISP 2         127         93           57         R-Y LEVEL         255         229         229         117         REMOTE ADDRESS         127         0           58         COLOR BALANCE (R-Y)         255         116         116         118         RESERVED 1         1         0           59         COLOR BALANCE (B-Y)         255         98         98         119         RESERVED 2         1         0  |      | -        |                    |     |     |               |     |              |                         |             |     |               |
| 54         CHROMA (ACC OFF)         255         90         90         114         MODEL         15         **           55         R-Y LEVEL         255         120         120         115         COLOR TEMP DISP 1         127         65           56         SECAM         CHROMA         255         120         120         116         COLOR TEMP DISP 2         127         93           57         R-Y LEVEL         255         229         229         117         REMOTE ADDRESS         127         0           58         COLOR BALANCE (R-Y)         255         116         116         118         RESERVED 1         1         0           59         COLOR BALANCE (B-Y)         255         98         98         119         RESERVED 2         1         0   |      |          |                    |     |     |               |     |              |                         |             | _   |               |
| 55         R-Y LEVEL         255         120         120         115         COLOR TEMP DISP 1         127         65           56         SECAM         CHROMA         255         120         120         116         COLOR TEMP DISP 2         127         93           57         R-Y LEVEL         255         229         229         117         REMOTE ADDRESS         127         0           58         COLOR BALANCE (R-Y)         255         116         116         118         RESERVED 1         1         0           59         COLOR BALANCE (B-Y)         255         98         98         119         RESERVED 2         1         0   | _    |          |                    | _   |     | _             |     |              |                         | +           |     |               |
| 56         SECAM         CHROMA         255         120         120         116         COLOR TEMP DISP 2         127         93           57         R-Y LEVEL         255         229         229         117         REMOTE ADDRESS         127         0           58         COLOR BALANCE (R-Y)         255         116         116         118         RESERVED 1         1         0           59         COLOR BALANCE (B-Y)         255         98         98         119         RESERVED 2         1         0   |      |          |                    |     |     |               |     |              |                         |             |     |               |
| 57         R-Y LEVEL         255         229         229         117         REMOTE ADDRESS         127         C           58         COLOR BALANCE (R-Y)         255         116         116         118         RESERVED 1         1         0           59         COLOR BALANCE (B-Y)         255         98         98         119         RESERVED 2         1         0  | SEC  | CAM      |                    |     |     |               |     |              |                         |             |     |               |
| 58         COLOR BALANCE (R-Y)         255         116         116         118         RESERVED 1         1         0           59         COLOR BALANCE (B-Y)         255         98         98         119         RESERVED 2         1         0  | 717  | Ç/7.1VI  |                    |     |     |               |     |              |                         |             |     |               |
| 59 COLOR BALANCE (B-Y) 255 98 98 119 RESERVED 2 1 0  |      |          |                    |     |     |               |     |              |                         | +           | ₩-  |               |
|  |      |          |                    |     |     |               |     |              |                         | <del></del> |     |               |
| 60 C/T1 ??00K 3200K SW 1 0 0 120 FACTORY SET FLAG 1 C  | ĊÆ   | Γ1 ??00K | 3200K SW           |     |     |               |     |              | FACTORY SET FLAG        | -           |     |               |

<sup>\*</sup> Among the data 8 bits (MAX255) only the upper 6 bits can be changed. \*\* PVM-1954Q, PVM-1350/1351Q/1354Q.

#### PREPARATIONS (2)

\* When composite video or component signals are supplied, they must be supplied as below.

| Signal                 |                | Signal Contents                               | Standard Level<br>(Pedestal-White) |
|------------------------|----------------|---|------------------------------------|
|                        |                | 100% WHITE                                    | 0.714V                             |
|                        |                | 75% WHITE                                     | 0.536V                             |
| COMPOSITE<br>VIDEO     | 358NT<br>443NT | BURST<br>(GREEN)<br>(This item only P-P)      | 286mV<br>(632mV)                   |
| (75%COLOR<br>BAR)      |                | 100% WHITE                                    | 0.7∨                               |
| DAK)                   | DAY            | 75% WHITE                                     | 0.525V                             |
|                        | PAL<br>SECAM   | PAL BURST<br>(GREEN)<br>(This item only P-P)  | 300m∨<br>(664mV)                   |
|                        |                | 100% WHITE Y                                  | 0.7V                               |
|                        |                | 75% WHITE Y                                   | 0.525V                             |
| COMPONENT<br>(75%COLOR | BETA 0         | 75% COLOR<br>B-Y, R-Y<br>(This item only P-P) | 0.7V                               |
| BAR)                   |                | 100% WHITE Y                                  | 0.7V                               |
|                        |                | 75% WHITE Y                                   | 0.525V                             |
|                        | SMPTE          | 75% COLOR<br>B-Y, R-Y<br>(This item only P-P) | 0.525V                             |

\* In this document, terms inside boxes \_\_\_\_\_ are names of service mode adjustments.

Example 60H-FREQ

- \* After making adjustments in service mode, write the adjustment data before cutting off the power. If you cut off the power without writing, the results of your adjustments are all lost.
- \* Standard inspection conditions

Unless specifically specified otherwise in this document, the following conditions are used for adjustments and inspections.

APERTURE

MIN

BRIGHT

50% (Center click)

CHROMA PHASE 50% (Center click)

CONTRAST

50% (Center click)

VOLUME

80% (Center click)

E 50%

#### 3-2. WRITING MODEL DATA

In service mode, write in the following model data at No. 114
 MODEL.

PVM-1350

7

PVM-1351Q/1354Q

4

2. In service mode, write in the following data at No. 115 COLOR TEMP DISP 1.

PVM-1350/1351Q/1354Q 65

3. In service mode, write in the following data at No. 116 COLOR TEMP DISP 2.

PVM-1350/1351Q/1354Q 93

#### 3-3. PICTURE OUTPUT

- 1. Set the AC input voltage.
  - (1) Input the video and audio signals to the corresponding terminals on the connector panel.
  - (2) Set the sliduck AC voltage as shown on the right. (\*1-1)

| Model                | Voitage                                      |
|----------------------|--|
| PVM-1350/1351Q/1354Q | AC120 ± 3V<br>(Distortion rate : 3% or less) |

#### 3-4. LANDING ADJUSTMENT

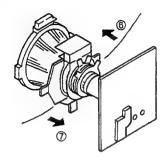
- 1. Preparations
- 1) To reduce the influence of geomagnetism, face the set's CRT screen east or west.
- Loosen the deflection yoke fixture and lower the deflection yoke to the rear.
- 3) Switch on the Power switch and degauss with the degausser.
- 4) Adjust the deflection yoke tilt.
- 2. Adjustment
- 1) CONT ····· MAX

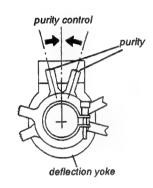
BRT..... Position providing good vision

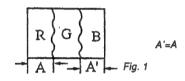
- 2) The rough adjustments of the white balance, G2, and convergence must be completed already.
- 3) Set green-only.
- Adjust the purity knob so that the green comes to the center of the screen. Make the red and blue about even. Fig. 1
- 5) Switch to blue only, red only, and green only and verify each. Fig. 1, 2, and 3
- 6) Bring the deflection yoke gradually forward and adjust the deflection yoke so that the R and B at both sides of the screen become green. Fig. 2→3
- If the deflection yoke comes too far forward, you will see the
  pattern shown in Figure 4. If that happens, lower the
  deflection yoke to the rear. Fig. 4 → 3
- 8) Switch the single color switch to B and verify the single color. Fig. 6
- Switch the single color switch to R and verify the single color. Fig. 9
- 10) When one of the colors does not become the single color correctly, check by repeating Items 7 and 8 based on the single color not coming into adjustment.

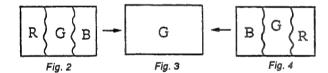
If you can not obtain landing in the corners, paste on magnets.

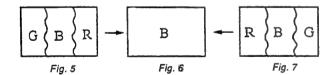
- 11) Switch to an all-white signal and check the uniformity.
- 12) When the deflection yoke position is determined, fastel it with the fixture.

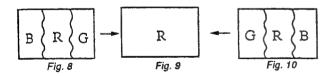










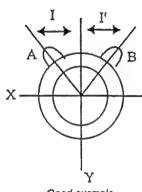


#### 3-5. CONVERGENCE ADJUSTMENT

1. Input a dot pattern signal. CONT ····· Position providing good vision

BRT ..... MIN

- 2. Align the horizontal R, G, and B dots at the center of the screen with the H-STAT VR. (\*1)
  - \*1: If the H-CENTER adjustment was after the H-STAT adjustment, re-adjust the H-STAT. (The H-CENT VR changes the H-STAT too.)
- 3. Align the R, G, and B at the center of the screen with the V-STAT magnets. (\*2)
  - \*2: After the V-STAT adjustment, paint on the knobs to lock them.



B Bad example

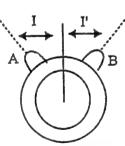
Good example

V-STAT magnet knobs While keeping the angles for A and B equal (I=I'), align the vertical convergence.

If the A and B knobs are not symmetrical (I=/I'), this has bad effects. The focus may deteriorate and beam striking may occur.

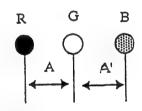
4. For HMC, use the 6-pole magnet to adjust the R and B dots to be symmetrical left and right about the G dot. (\*1)

\*1:



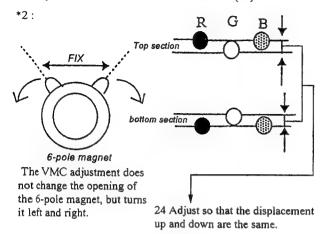


The HMC adjustment changes the opening of the 6-pole magnet.

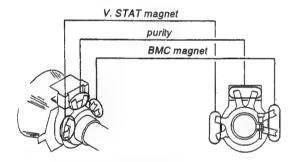


Adjust the 6-pole magnet so that A=A'. You must maintain the relationship I≠I' while moving the magnet.

95. For VMC, use the 6-pole magnet to adjust the R and B dots to be symmetrical above and below the G dot. (\*2)



- 6. Adjust by repeating the adjustments in Items 2 through 5. (\*3)
  \*3: The above adjustment may affect the landing, so after this adjustment, check the landing again.
- 7. After the adjustment is complete, paint on the knobs to lock them

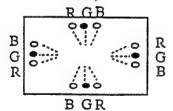


# 3-6. DEFLECTION YOKE NECK ROTATION ADJUSTMENT

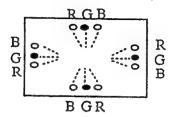
If there is misconvergence at both sides on the X or Y axis of the screen, turn the neck of the deflection yoke in the direction of the arrow to reduce the misconvergence for the entire CRT screen to within the tolerance.

1. Reverse misconvergence pattern

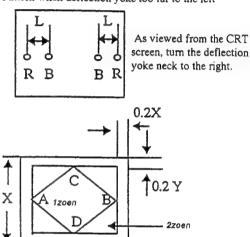
Turn the deflection yoke neck down.

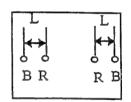


Positive misconvergence pattern Turn the deflection yoke neck up.



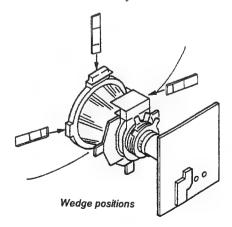
Pattern when deflection yoke too far to the left



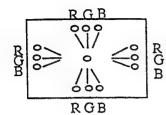


Pattern when deflection yoke too far to the right

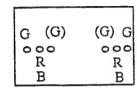
Insert the three wedges in the deflection yoke and CRT funnel surface to fasten the deflection yoke.



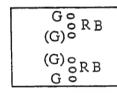
3. The pattern below can not be corrected by turning the neck.



\* Gun rotation
The beam is twisted at both sides on the X axis and Y axis.



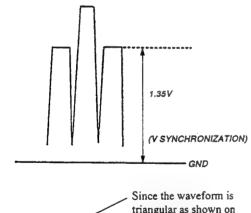
\* HCR large (small)
At both sides of the screen,
the G raster horizontal
component is wider
(narrower) than those of the
R and B rasters.

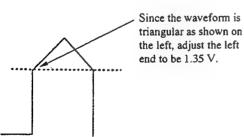


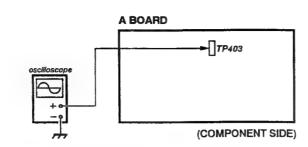
\* VCR large (small)
At both sides of the screen,
the G raster vertical
component is wider
(narrower) than those of
the R and B rasters.

#### 3-7. G2 ADJUSTMENT

- 1. Input a 525 monoscope signal.
- 2. Connect the oscilloscope to A board TP403.
- 3. Of the three reference pulses, measure the lowest one.
- 4. With the Screen VR, adjust so that left end of the waveform is : 1.35 V  $\pm$  0.05







#### 3-8. WHITE BALANCE ADJUSTMENT

For measuring equipment, use a color analyzer (for example from Minolta).

For the PVM-1350, Items 7, 8, 14, 15 and 16 are not necessary.

- 1. Input a 525 monoscope signal.
  - (Input from Line A or Line B, with no burst.)
- 2. Set: CONT ····· 0% BRT····· 50%
- 3. On a 20-tone gray scale, adjust service mode SUB BRIGHT so that
- 0 and 5 IRE  $\rightarrow$  cut off 10 IRE  $\rightarrow$  slight glow
- 4. Input 525 all-white (no burst, composite signal).
- 5. Set CONT to 80%.
- Adjust the all-white signal luminance so that the screen luminance is 3 NIT.
- 7. Press MENU and select COL TEMP/BAL.
- 8. Select 6500 K.
- Put the unit into service mode. (\*1)
   \*1 : Set 3200 K SW to 0 for both 9300K and 6500K.
- 10. Adjust to the standard values with C/T1 6500K BIAS (G must be fixed at "512".) (\*2)
  \*2: Adjust the cut-off to be 3 NIT.
- 11. Switch the all-white signal luminance to 100 IRE.
- 12. Adjust to the standard values with C/T1 6500K GAIN (G must be fixed at "700".)
- 13. Repeat Items 10, 11 and 12 until the adjustment is complete, then write the adjustment data.
- 14. Press MENU and select COL TEMP/BAL.
- 15. Select 9300 K.
- 16. In the same manner as in Items 10, 11, 12 and 13 make the C/T2 9300K BIAS and C/T2 9300K GAIN adjustments.

#### 3-9. BLUE-ONLY WHITE-BALANCE ADJUSTMENT

For the PVM-1350, Items 3, 4, 5, 6, 7 and 8 are not necessary.

- Switch the user control SW Blue Only On (to set blue-only mode).
- 2. Input an all-white signal (no burst composite signal). (\*1)
  The luminance of the all-white signal must be 100 IRE.
  - CONT ..... 80% BRT..... 50%
- 3. Select COL TEMP/BAL.
- 4. Select 6500 K.
- 5. Adjust to the standard values with C/T1 6500K B/O (RED) and C/T1 6500K B/O (GREEN).
- 6. Select COL TEMP/BAL.
- 7. Select 9300 K.
- Adjust to the standard values with C/T1 9300K B/O (RED) and C/T1 9300K B/O (GREEN).
- Check that the white balance is obtained when the all-white signal luminance is adjusted and the screen luminance is 8 NIT.

#### **3-10 SUB BRT ADJUSTMENT**

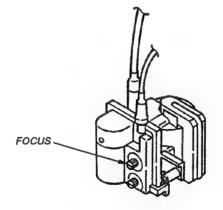
- 1. Input a 525 monoscope signal.
- 2. CONT ..... MIN
  - BRT ..... CENTER (50%)
- 3. Put the unit into service mode and select SUB BRIGHT
- 4. Adjust SUB BRIGHT so that 10 IRE gives a slight glow and 10 IRE gives cut off.

#### 3-11. FOCUS ADJUSTMENT

Note: PVM-1350, 1351Q and 1354Q are adjusted with RV707 on the C board.

PVM-1351Q, 1354Q are adjusted with the RV at the top of the FBT main nuit

- 1. Input a 525 monoscope signal.
- 2. Adjust the focus to optimize the focus on the characters "30" at the center of the screen.
- 3. Switch to an all-white signal and check the uniformity.



#### **SECTION 4** SAFETY RELATED ADJUSTMENT

The following adjustments should always be performed when replacing the following components (marked with A, a on the schematic diagram).

+B detection...... ₹ R1535 Tertiary coil detection...... 

R1536

Part replosed( ) Hold Down Circuit...... A board IC500, D533, R1537, C592, R1536, C523, R1560, R551, C549, R518, C506, C512,

D501, R506, R519, T501,

Beam Current Protector

Circuit...... A board R508, R515, R516, R517, C513, Q500, Q511

B+ Regulator Circuit..... A board R1535 ☐ G board C603,IC602

#### B+ MAX VOLTAGE CONFIRMATION (RV601)

Standard: 115.0~117.0 VDC

Check Condition: Input voltage: 130~132 VAC

Note: Use NF Power Supply or make sure that

distortion factor is 3% or less. Input signal: ALL White

Controls : BRT & CONT ⇒ Minimum

#### HOLD-DOWN CIRCUIT VOLTAGE CONFIRMATION

Check Condition: Input voltage: 130~132 VAC

Input signal: monoscope signal Controls : BRT & PIC ⇒ initial reset B+ voltage: Less than 117.0 V

(1) Hold down circuit (+B Actuation) a) When IABL = 600  $\pm$  50  $\mu$  A, raster goes out at less than 130.5 V of +B voltage (TP502) by adjusting △ R690 and RV601.

Input signal: ALL white △ R690: 470-5.6k 1/4 W RN

b) When IABL = 40  $\pm$  20  $\mu$  A, raster goes out at less than 130.5 V of +B voltage (TP502) by adjusting △ R690 and RV601. Input signal: Dot

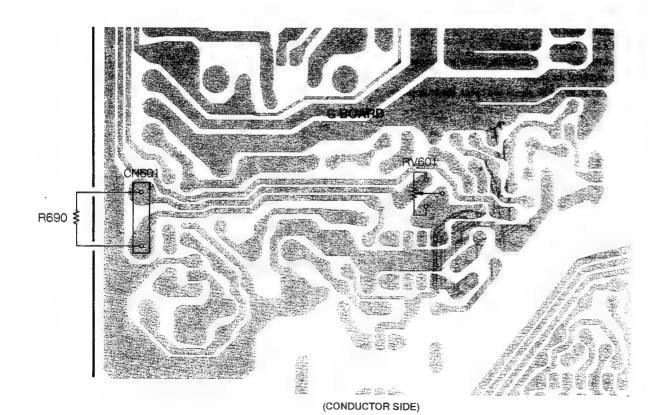
(2) Hold down circuit (Tertiary coil detection voltage) Confirmatory item: 110.0 V voltage should be applied to the (11) pin of IC500.

a) When IABL = 600  $\pm$  50  $\mu$  A, raster goes out when applying less than DC 146.7 V voltage to the (11) pin (TP503) of IC500 from outside.

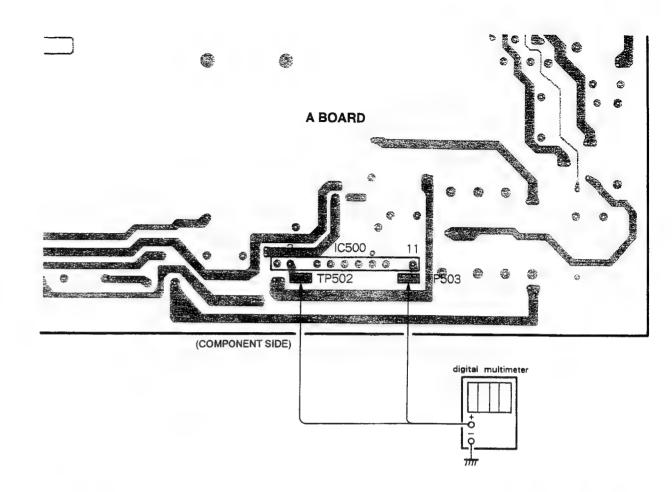
Input signal: ALL white

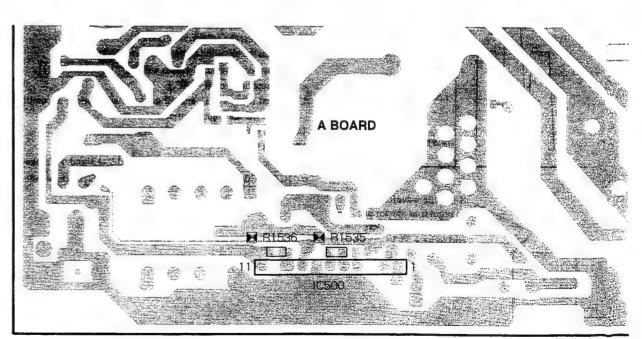
b) When IABL = 40  $\pm$  20  $\mu$  A, raster goes out when applying less than DC 147.0 V voltage to the (11) pin (TP503) of IC500 from outside.

Input signal: Dot







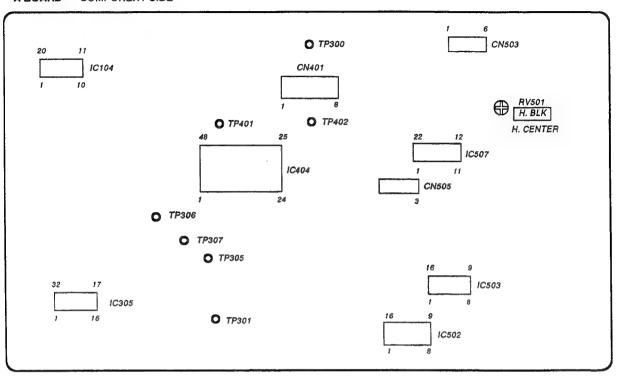


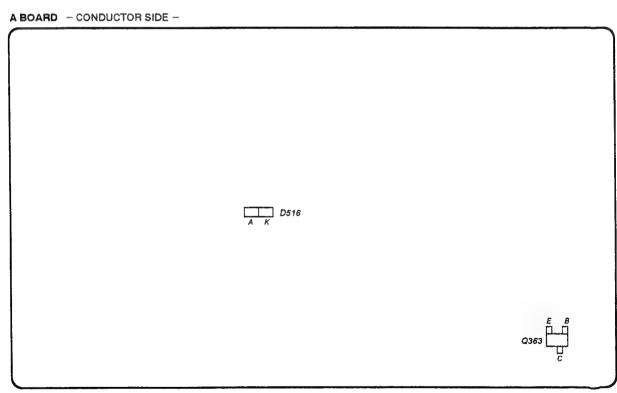
(CONDUCTOR SIDE)

# SECTION 5 CIRCUIT ADJUSTMENTS

#### 5-1. A BOARD ADJUSTMENT

A BOARD - COMPONENT SIDE -





#### I. Preparations

\* When composite video or component signals are supplied from connector CN301, they must be supplied taking into account the effect of the Q board as indicated on the right.

The levels of the signals supplied must be within  $\pm 2\%$  of the standard on the right.

| Signal             |       | Signal Contents                               | Standard Level (Pedestal-White) | Reduction<br>Ratio | Connector Feed Level<br>(Pedestal-White) |
|--------------------|-------|---|---------------------------------|--------------------|--|
|                    |       | 100% WHITE                                    | 0.714V                          | 93%                | 0.664V                                   |
|                    | 358NT | 75% WHITE                                     | 0.536V                          | 93%                | 0.498V                                   |
| COMPOSITE<br>VIDEO | 443NT | BURST<br>(GREEN)<br>(This item only P-P)      | 286mV (632mV)                   | 94% (94%)          | 269mV (594mV)                            |
| (75% COLOR BAR)    |       | 100% WHITE                                    | 0.7V                            | 94%                | 0.651V                                   |
| ,                  | PAL   | 75% WHITE                                     | 0.525V                          | 94%                | 0.488V                                   |
|                    | SECAM | PAL BURST<br>(GREEN)<br>(This item only P-P)  | 300mV (664mV)                   | 94% (94%)          | 282mV (624mV)                            |
|                    |       | 100% WHITE Y                                  | 0.7V                            | 94.8%              | 0.664V                                   |
|                    | 1     | 75% WHITE Y                                   | 0.525V                          | 94.8%              | 0.498V                                   |
| COMPONENT          | BETA0 | 75% COLOR<br>B-Y, R-Y<br>(This item only P-P) | 0.7V                            | 94.8%              | 0.664V                                   |
| (75% COLOR BAR)    |       | 100% WHITE Y                                  | 0.7V                            | 94.8%              | 0.664V                                   |
|                    |       | 75% WHITE Y                                   | 0.525V                          | 94.8%              | 0.498V                                   |
|                    | SMPTE | 75% COLOR<br>B-Y, R-Y<br>(This item only P-P) | 0.525V                          | 94.8%              | 0.498V                                   |

\* The function or input can be selected by writing the corresponding data from the table below into microcomputer (IC101) RAM address 0006h.

| BIT | FUNCTION         | DATA |
|-----|------------------|------|
| 0-3 | LINE A/RGB       | 1    |
|     | LINE B/COMPONENT | 2    |
|     | LINE C/SDI       | 3    |
|     | LINE/RGB         | 4    |
|     | EXT SYNC         | 5    |
|     | DEGAUSS          | 6    |
|     | BLUE ONLY        | 7    |
|     | UNDER SCAN       | 8    |
|     | H/V DELAY        | 9    |
|     | 16:9             | 10   |
| 4-7 | MENU             | 1    |
|     | SELECT           | 2    |
|     | UP               | 3    |
|     | DOWN             | 4    |

| * | In this | document,  | terms | inside | boxes | are | names | of |
|---|---------|------------|-------|--------|-------|-----|-------|----|
|   |         | mode adjus |       | s.     |       |     |       |    |
| E | xample  | 60H-FRI    | €Q    |        |       |     |       |    |

\* CONT 80% is the center click position for the user control.

#### II. Deflection System Adjustment

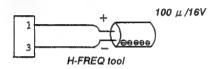
### 1. ADJUSTING THE HORIZONTAL OSCILLATION FREQUENCY

- \* For the PVM-1350, Items 6 and 7 are not necessary.
- 1. Input a 525 monoscope signal.
- 2. Set:

CONT ..... 80%

BRT .....50%

- 3. Put the unit into service mode.
- Drop A board IC507 Pin 1 to ground with a 100 μ/16V electrolytic capacitor. (Ground must use CN505 Pin 3.)
   Or plug the H-FREQ tool into CN505.
- Adjust 60H-FREQ so that the diagonal lines on the screen become vertical lines. (Fig. 1)
- 6. Input a 625 monoscope signal.
- 7. Adjust 50H-FREQ so that the diagonal lines on the screen become vertical lines. (Fig. 1)



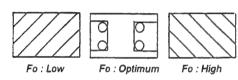


Fig. 1

#### 2-1. H-BLK Adjustment

- 1. Input a 525 monoscope signal.
- 2. Set:

CONT ..... 80%

BRT ..... 50%

- 3. Put the unit into service mode.
- Observe the anode of D516 or TP300 with the oscilloscope and adjust H-BLK to obtain the waveform in Fig. 2.

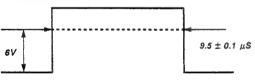


Fig. 2

#### 2-2. H-BLK Adjustment (PVM-1350 only)

- 1. Put the unit into service mode.
- 2. Input an adjustment value of 70 for H-BLK.

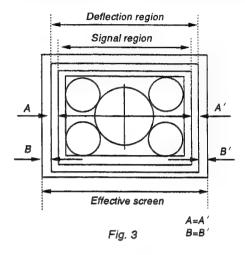
# 3-1. PICTURE PHASE Adjustment (PVM-1351Q/1354Q only)

- 1. Input a 525 monoscope signal.
- 2. Put the unit into under scan mode.
- 3. Set:

CONT ····· Min.

BRT ····· Max.

- 4. Put the unit into service mode.
- 5. Use U/S H SIZE to adjust the size of the monoscope white frame to be about 1 cm to the inside of the limits of the effective screen.
- 6. Turn RV501 (H-CENT) and adjust so that B=B'.
- 7. Adjust 60 VIDEO PHASE so that the signal region comes to the center (A=A') of the deflection region. (Fig. 3)



- 8. Input a 625 monoscope signal.
- 9. Adjust 50 VIDEO PHASE in the same manner.

#### 3-2. PICTURE PHASE Adjustment (PVM-1350 only)

- 1. Input a 525 monoscope signal.
- 2. Put the unit into service mode.
- 3. Input an adjustment value of 123 for 60 VIDEO PHASE
- 4. Input an adjustment value of 137 for 50 VIDEO PHASE.
- Roughly adjust H-SIZE so that the horizontal size s 15.75 frames.
- Turn RV501 (H-CENT) and adjust so that the left and right over scan amounts are equal.

#### 4-1. V-BLK Adjustment (PVM-1351Q/1354Q only)

- 1. Input a 525 monoscope signal.
- 2. Put the unit into under scan mode.
- 3. Set :

CONT ····· Min.

BRT.....Max.

- 4. Put the unit into service mode.
- 5. Adjust V BLK (60) so that before 0.5H of the white frame on the top of the monoscope is barely unblocked.
- 6. End under scan mode and put the unit into Normal 16:9 mode.
- 7. Adjust 16:9 BLK START (60) and 16:9 BLK END (60) so that the vertical direction frame count is 11.75 for the light emitting section of the screen and at the same tine the top and bottom block amounts are the same.

Note: This must be done before the 16:9 V-SIZE adjustment.

- 8. Input a 625 monoscope signal.
- 9. Adjust V BLK (50) in the same manner as in 5 above.

1010. Adjust 16:9 BLK START (50) and 16:9 BLK END (50) in the same manner as in 7 and 8 above so that the vertical direction frame count is 11.2 for the light emitting section of the screen and at the same time the top and bottom block amounts are the same.

#### 4-2. V-BLK Adjustment (PVM-1350 only)

- 1. Put the unit into service mode.
- 2. Use 60 V-SIZE and reduce the image size so that the upper and lower blanking can be seen.
- 3. Use 60 V-BLK and adjust so that the white frame of the upper part becomes ½.

#### 5. VERTICAL DEFLECTION SECTION Adjustment

- \* PVM-1350 has no 16: 9 mode.
- \* PVM-1350 has no 625 mode.

Normal V. Size Standards

|      |      | 525                | 625               |
|------|------|--------------------|-------------------|
| 4:3  |      | 11.75 ± 0.2 frames | 11.2 ± 0.2 frames |
| 16:9 | 14"  | 154 ± 2mm          | 4                 |
| 10.9 | 20 ″ | 217 ± 3mm          | -                 |

- 1. Input a 525 monoscope signal.
- 2. Set:

CONT ..... 80%

BRT-----50%

- 3. Put the unit into service mode.
- 4. Adjust the size to 12 frames with NOR 60 V SIZE

Adjust the vertical linearity with V LIN .

Adjust the vertical centering with 60 V CENT .

Note: The V.CENT adjustment must be re-evaluated after the V.LIN adjustment.

Adjust the size to the standard value with NOR 60 V SIZE .

- 5. Put the unit into 16:9 mode.
- 6. Adjust in the same manner with 16: 9 NOR V SIZE (60)
- 7. Put the unit into normal scan mode.
- 8. Input a 625 monoscope signal.
- Roughly adjust NOR 50V SIZE so that the size is 11 frames.
   Adjust the vertical centering with 50 V CENT.

Note: The V.CENT adjustment must be re-evaluated after the V.LIN adjustment.

Adjust the size to the standard value with NOR 50 V SIZE.

- 10. Put the unit into 16:9 mode.
- 11. Adjust in the same manner with 16:9 NOR V SIZE (50)

## 6. HORIZONTAL DEFLECTION SECTION ADJUSTMENT NORMAL SCAN Adjustment

- \* PVM-1350 hasno 625 mode.
- \* PVM-1350 hasno 16: 9 mode.
- 1. Input a 525 monoscope signal.
- 2. Set

CONT ..... 80%

BRT ..... 50%

- 3. Put the unit into service mode.
- Roughly adjust NOR H SIZE so that the size is 15.75 frames.
- 5. Adjust the horizontal deflection section with

NOR PIN AMP, NOR PIN PHASE, NOR U/L PIN, SEXY, V BOW and V ANGLE.

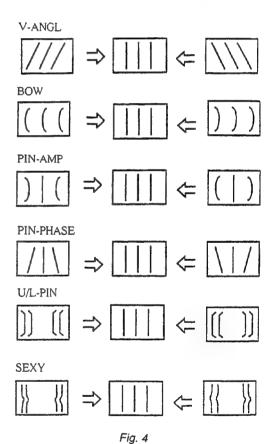
(While adjusting the pincushion distortion and bow distortion with V-ANGL and BOW, adjust so that the horizontal and vertical of the screen are straight lines.)

- 6. Put the unit into 16:9 mode.
- 7. Adjust with 16:9 NOR PIN AMP,

  16:9 NOR PIN PHASE, and 16:9 NOR U/L PIN in the same manner as in Item 5.

#### Normal H.Size Standards

|      | 525                | 625               |  |  |
|------|--------------------|-------------------|--|--|
| 4:3  | 15.75 ± 0.2 frames | 15.0 ± 0.2 frames |  |  |
| 16:9 | 15.75 ± 0.2 frames | 15.0 ± 0.2 frames |  |  |



# 7. HORIZONTAL DEFLECTION SECTION Adjustment (UNDER SCAN adjustment) (PVM-1351Q/1354Q only)

Standard value

|                      | 525                    | 625 |
|----------------------|------------------------|-----|
| U/S H-SIZE<br>V-SIZE | 252 ± 2mm<br>188 ± 2mm |     |
| 16 : 9<br>U/S V-SIZE | 142 ± 2mm              | -   |

#### 8. H/V DELAY Adjustment

- 1. H-DELAY adjustment
  - 1) Input a 525 monoscope signal.

2) Set:

CONT ..... 80%

BRT ..... 50%

- 3) Put the unit into H/V DELAY mode.
- 4) Put the unit into service mode.
- 5) Connect the oscilloscope probe to IC503 Pin 7, then adjust H DELAY so that the waveform is as in Fig. 5.
- 2. V-DELAY Adjustment
  - 1) Input a 525 monoscope signal.

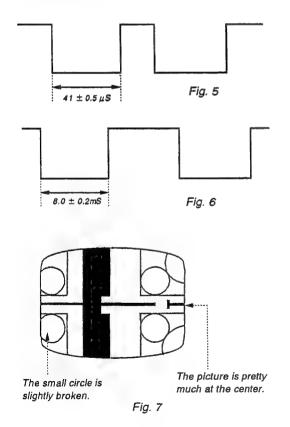
2) Set:

CONT ..... 80%

BRT ..... 50%

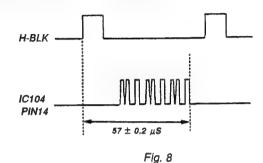
- 3) Put the unit into H/V DELAY mode.
- 4) Put the unit into service mode.
- 5) Connect the oscilloscope probe to IC502 Pin 7, then adjust V DELAY so that the waveform is as in Fig. 6.
- 3. Picture verification (PVM-1351Q/1354Q only)

Verify that the picture is as in Fig. 7.



#### 9. OSD POSITION Adjustment

- 1. Input a 525 color bar signal.
- Connect the oscilloscope probes to TP300 (H-BLK) and IC104 Pin 14.
- 3. Adjust OSD POSITION so that the gap between the rising edge of the H-BLK waveform and the right edge character (the right edge of the " " " for service mode OSD POSITION) is: 57 μS ± 0.2 μS



#### 10. WRITING THE ADJUSTMENT

1. Write the adjustment results into memory.

**Note**: If you cut off the power before writing, the results of your adjustments are all lost.

#### III. SIGNAL SYSTEM ADJUSTMENT

#### 1. NORM AL AND H/V DL SUB CON ADJUSTMENT

- \* PVM-1350 has neither 16: 9 nor H/V-DL.
- 1. Input a vertical white line signal.

Note: Use a vertical white line signal (525 no burst, H width  $3\mu$ S, 100IRE).

2. Set:

CONT ..... 80%

BRT ..... 50%

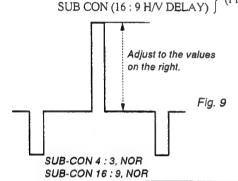
- 3. Connect the oscilloscope probe to A board CN401 Pin 3.
- 4. Put the unit into service mode.
- 5. Provisionally input an adjustment value of 69 for SUB BRT.
- 6. Adjust the pedestal or the distance between the sync tip and white with SUB CON (4:3 NOR), SUB CON (4:3 H/V DELAY), SUB CON (16:9 NOR), and SUB CON (16:9

DELAY), SUB CON (16: 9 NOR), and SUB CON H/V DELAY).

SUB CON (4: 3 NOR).

SUB CON (16: 9 NOR)

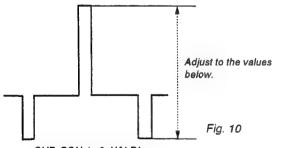
(Fig. 9)



SUB CON (4: 3 H/V DELAY)

|      | #            | 14"          |                    |  |
|------|--------------|--------------|--------------------|--|
|      | 20″          | PVM-1354Q    | PVM-1350/<br>1351Q |  |
| 4:3  | 1.55<br>Vp-p | 1.50<br>Vp-p | 1.40<br>Vp-p       |  |
| 16:9 | 1.40<br>Vp-p | 1.33         | 1.24<br>Vp-p       |  |

(Fig. 10).

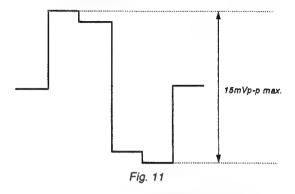


SUB-CON 4 : 3, H/V-DL SUB-CON 16 : 9, H/V-DL

|      |      | 14"       |                    |  |
|------|------|-----------|--------------------|--|
|      | 20″  | PVM-1354Q | PVM-1350/<br>1351Q |  |
| 4:3  | 1.55 | 1.50      | 1.40               |  |
|      | Vp-p | Vp-p      | Vp-p               |  |
| 16:9 | 1.40 | 1.33      | 1.24               |  |
|      | Vp-p | Vp-p      | Vp-p               |  |

#### 2-1. SUB PHASE Adjustment (PVM-1351Q/1354Q only)

- Input a component color bar (R-Y) and EXT SYNC (Beta 0 level signal).
- 2. Put the unit into Ext Sync mode.
- 3. Connect the oscilloscope probe to IC404 Pin 30 or TP402.
- 4. Put the unit into service mode.
- 5. Adjust SUB PHASE to minimize the output waveform (15 mVp-p max.) (Fig. 11)

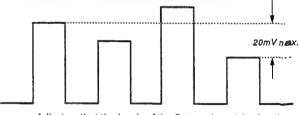


#### 2-2. SUB PHASE Adjustment (PVM-1350 only)

- 1. Input a NTSC color bar signal.
- 2. Connect between L309 and ground and between TP507 and a 5V line (L320 line).
- 3. Put the unit into service mode.
- 4. Adjust SUB PHASE to minimize the output waveform (15 mVp-p max.) (Fig. 11)

### 3-1. SUB CHROMA Adjustment (PVM-1351Q/1354Q only)

- 1. Input a component color bar (R-Y, Y, B-Y). (Beta 0 level signal).
- 2. From the menu, make the Component Level Beta 0.
- 3. Connect the oscilloscope probe to IC404 Pin 30 or TP402.
- 4. Put the unit into service mode.
- 5. Using SUB CHROMA NORMAL, adjust so that the tops of the waveform line up as in the diagram below. (Fig. 12)



Adjust so that the levels of the first peak and the fourth peak are the same.

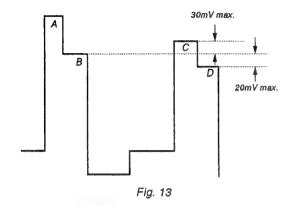
Fig. 12

#### 3-2. SUB CHROMA Adjustment (PVM-1350 only)

- 1. Put the unit into service mode.
- 2. Input an adjustment value of 98 for SUB CHROMA NORMAL. (Fig. 12)

#### 4. R-Y LEVEL ADJUSTMENT (PVM-1351Q/1354Q only)

- 1. Input a component color bar (R-Y, Y, B-Y). (Beta 0 level signal).
- 2. From the menu, make the Component Level Beta 0.
- 3. Connect the oscilloscope probe to IC404 Pin 41 or TP401.
- 4. Put the unit into service mode.
- 5. Using R-Y LEVEL COMPONENT, adjust so that the tops of the waveform line up as in the diagram below. (Fig. 13)



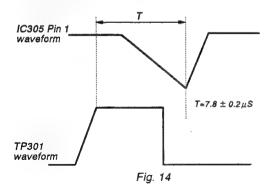
Adjust so that B=D above (20 mV max.) Check that the difference between D and C is no greater than 30 mV

### 5. SUB CHROMA N10/SMPTE Adjustment (PVM-1351Q/ 1354Q only)

- Input a component color bar (R-Y, Y, B-Y). (SMPTE level signal).
- 2. From the menu, make the Component Level N10/SMPTE.
- 3. Connect the oscilloscope probe to IC404 Pin 30 or TP402.
- 4. Put the unit into service mode.
- In the same manner as in 4-5, adjust SUB CHROMA N10/SMPTE.

#### 6. BURST GATE PULSE WIDTH Adjustment

- 1. Input an NTSC color bar.
- Connect the oscilloscope probes to TP301 (COMP-SYNC) and Q363 or IC305 Pin 1. (Be careful! IC305 Pin 1 is a high-impedance line.)
- 3. Put the unit into service mode.
- Adjust BGP WIDTH so that the output waveform has the relationship shown in Fig. 14.

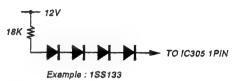


#### 7. VXO Adjustment

- 1. X'tal 358
- 1) Input an NTSC color bar.
- 2) Connect the frequency counter to IC305 Pin 21.
- 3) Put the unit into service mode.
- 4) Connect the circuit on the right to IC305 Pin 1.
- 5) Adjust CRYSTAL 358 so that the counter reading meets the standard below. (You can also just adjust for where the color flicker stops.)

X'tal 358

Standard level 3.579545 ± 20Hz



(For connecting to Pin 1, have the four diodes as close to Pin 1 as possible to reduce the length of the wires.)

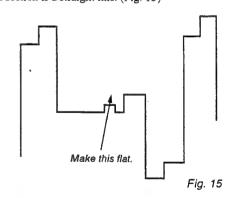
- 2. X'tal 443 (PVM-1351Q/1354Q only)
- 1) Input a 443 NTSC color bar.
- 2) Connect the frequency counter to IC305 Pin 21.
- 3) Put the unit into service mode.
- 4) Connect to IC305 Pin 1 in the same manner as in 1-4).
- 5) Adjust Crystal 443 in the same manner as in 1-5).

X'tal 443

Standard level 4.433619 ± 20Hz

#### 8. NTSC COLOR DEMODULATION Adjustment

- \* The adjustment in 8-1-3) is not necessary for PVM-1351Q/
- \* The adjustment in 8-1-4) is not necessary for PVM-1350.
- 1. NT 358 PHASE (NORMAL)
- 1) Input an NTSC color bar.
- 2) Connect the oscilloscope probe to TP306.
- 3) Supply 4 VDC to IC305 Pin 4.
- 4) Put the unit into H/V delay mode.
- 5) Put the unit into service mode.
- Adjust PHASE NTSC 358 NOR so that the output waveform burst section is a straight line. (Fig. 15)

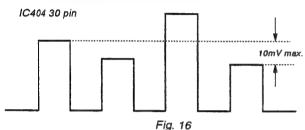


- 2. NT358 PHASE (ACC OFF) (PVM-1351Q/1354Q only)
  - 1) Switch ACC Off with the menu.
- Adjust in the same manner as in 8-1 above, but adjust with PHASE NTSC 358 ACC OFF. (Fig. 15)

#### 3. NT358 B-Y PHASE

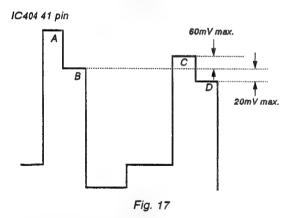
The phase adjustment must be carried out before the chroma adjustment.

- Input an NTSC color bar. (Input only the R-Y component. Have B-Y and Y off.)
- 2) Connect the oscilloscope probe to TP305.
- 3) Put the unit into service mode.
- 4) Adjust B-Y PHASE NTSC 358 so that the color components form a straight line.
- 4. NT358 CHROMA (NORMAL)
- 1) Input an NTSC color bar.
- 2) Connect the oscilloscope probe to IC404 Pin 30 or TP402.
- 3) Put the unit into service mode.
- 4) Using CHROMA NTSC 358 NOR, adjust so that the tops of the waveform line up as in the diagram below. (Fig. 16)



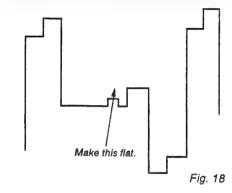
Adjust so that the levels of the first peak and the fourth peak are the same.

- 5. NT 358 CHROMA (ACC OFF) (PVM-1351Q/1354Q only)
- 1) Switch ACC Off with the menu.
- 2) Adjust CHROMA NTSC 358 ACC OFF in the same manner as 8.-4 above. (Fig. 16)
- 6. NTSC 358 R-Y LEVEL
- 1) Input an NTSC358 color bar.
- 2) Connect the oscilloscope probe to IC404 Pin 41 or TP401.
- 3) Put the unit into service mode.
- 4) Using R-Y LEVEL NTSC 358, adjust so that the tops of the waveform line up as in the diagram below. (Fig. 17)



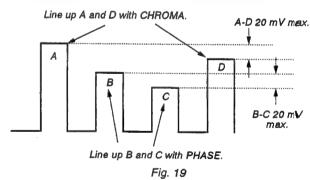
Adjust so that B=D above (20 mV max.) Check that the difference between B and C is no greater than 60 mV.

- 7. NTSC 443 PHASE (NORMAL) (PVM-1351Q/1354Q only)
- \* The adjustment in 8-7-3) is not necessary for PVM-1351Q/1354Q.
- 1) Input an NTSC 443 color bar.
- 2) Connect the oscilloscope probe to TP306.
- 3) Supply 4 VDC to IC305 Pin 4.
- 4) Put the unit into H/V delay mode.
- 5) Put the unit into service mode.
- 6) Adjust PHASE NTSC 443 NOR so that the output waveform burst section is a straight line. (Fig. 18)

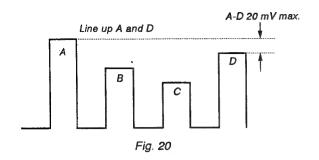


- 8. NTSC 443 PHASE (ACC OFF) (PVM-1351Q/1354Q only)
- 1) Switch ACC Off with the menu.
- 2) Adjust PHASE NTSC 443 ACC OFF in the same manner as in 7-5). above. (Fig. 20)
- NTSC 443 B-Y PHASE (PVM-1351Q/1354Q only) NTSC 443 CHROMA NOR
- 1) Input an NTSC 443 color bar.
- 2) Connect the oscilloscope probe to TP402.
- 3) Put the unit into service mode.
- 4) Adjust B-Y PHASE NTSC 443 and CHROMA NTSC 443

  NOR so that the tracking is normal and the tops of the waveform line up. (Fig. 19)



- 10. NTSC 443 CHROMA (ACC OFF) (PVM-1351Q/1354Q only)
- 1) Switch ACC Off with the menu.
- Adjust CHROMA NTSC 443 ACC OFF in the same manner as 9-4). (Fig. 22)



- 11. NTSC 443 R-Y LEVEL (PVM-1351Q/1354Q only)
- 1) Input an NTSC 443 color bar.
- 2) Connect the oscilloscope probe to TP401.
- 3) Put the unit into service mode.
- 4) Adjust R-Y LEVEL NTSC 443 in the same manner as 6-4). (Fig. 17)
- 12. PAL PHASE (NORMAL) (PVM-1351Q/1354Q only)
- 1) Input a PAL SP color bar.
- 2) Connect the oscilloscope probe to TP306.
- 3) Put the unit into service mode.
- 4) Adjust PHASE PAL NOR so that the B-Y anti-PAL signal waveform is 0. (Fig. 21)

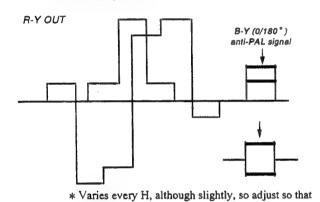


Fig. 21

# 13. PLL PHASE (ACC OFF) (PVM-1351Q/1354Q only)

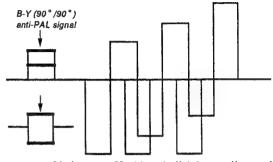
the average is 0.

- 1) Switch ACC Off with the menu.
- 2) Adjust PHASE PAL ACC OFF in the same manner as 12-4).

### 14. PAL B-Y PHASE (PVM-1351Q/1354Q only)

- 1) Input a PAL SP color bar.
- 2) Connect the oscilloscope probe to TP305.
- 3) Put the unit into service mode.
- 4) Adjust B-Y PHASE PAL so that the B-Y anti-PAL signal waveform is 0. (Fig. 22)

### (R-Y OUT)

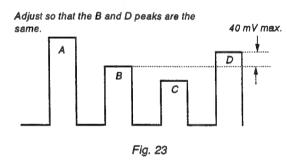


\* Varies every H, although slightly, so adjust so that the average is 0.

Fig. 22

### 15. PAL CHROMA (NORMAL) (PVM-1351Q/1354Q only)

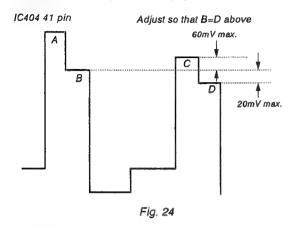
- 1) Input a PAL color bar.
- 2) Connect the oscilloscope probe to IC404 Pin 30 or TP402.
- 3) Put the unit into service mode.
- 4) Adjust CHROMA PAL NOR so that the tops of the waveform line up. (Fig. 23)



# 16. PAL CHROMA (ACC OFF) (PVM-1351Q/1354Q only)

- 1) Switch ACC Off with the menu.
- Adjust CHROMA PAL ACC OFF in the same mariner as 15.-4). (Fig. 23)

- 17. PAL R-Y LEVEL (PVM-1351Q/1354Q only)
- 1) Input a PAL color bar.
- 2) Connect the oscilloscope probe to IC404 Pin 41 or TP401.
- 3) Put the unit into service mode.
- 4) Adjust R-Y LEVEL PAL so that the tops of the waveform line up as in the diagram below. (Fig. 24)



### 9. SECAM Adjustmnet

\* This must be done after the deflection adjustment.

Note: Varies with H-FREQ, H-BLK, VIDEO-PHASE, ANGLE, BOW, H-DELAY, etc.

HP EIDTH (NORMAL) ADJUSMTNET (PVM-1351Q/1354Q only)

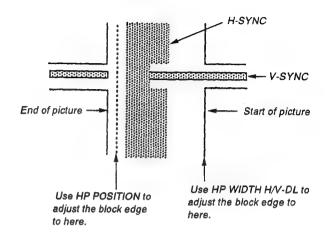
The board adjustment in 9.-1. is a rough adjustment and this may also be managed with the IC317 Pin 10 pulse width.

- 1) Input a SECAM color bar.
- 2) Put the unit into under scan mode.
- 3) Put the unit into service mode.
- 4) Adjust HP WIDTH NOR so that the color of the color section at the top left of the screen almost disappears.
- 2. HP POSITIOM ADJUSMTNET (PVM-1351Q/1354Q only)

Note: 9.-2. is the same as above. This adjustment can be managed with the phase relationship between the start of the pulse at IC317 Pin 10 and the input video signal.

- 1) Input a SECAM color bar.
- 2) Put the unit into H/V delay mode.
- 3) Put the unit into service mode.
- 4) Adjust HP POSITION as in the diagram on the right.
- HP WIDTH (H/V -DL) ADJUSMTNET (PVM-1351Q/1354Q only)
- 1) Input a SECAM color bar.
- 2) Put the unit into H/V delay mode.
- 3) Put the unit into service mode.

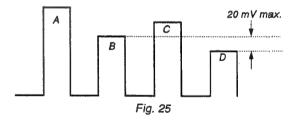
 Adjust HP WIDTH H/V DELAY as in the diagram below.
 Note: Check the HP POSITION and if it is off, repeat 2 and 3.



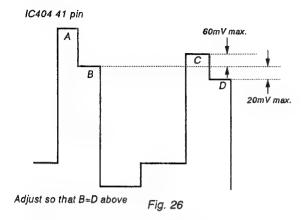
- 4. SECAM COL BALANCE (PVM-1351Q/1354Q only)
- 1) Input a SECAM color bar.
- 2) Connect the oscilloscope probe to TP306.
- 3) Put the unit into service mode.
- Adjust SECAM COLOR BALANCE R-Y so that the non-color section forms a straight line.
- Connect the oscilloscope probe to TP305.
- Adjust SECAM COLOR BALANCE B-Y so that the non-color section forms a straight line.
- 5. SECAM CHROMA (PVM-1351Q/1354Q only)
- 1) Input a SECAM color bar.
- 2) Connect the oscilloscope probe to IC404 Pin 30 or TP402.
- 3) Put the unit into service mode.
- 4) Adjust CHROMA SECAM so that the tops of the waveform line up as in the diagram below. (Fig. 25)

# IC404 30 pin

Adjust so that the B and D peaks are the same.



- 6. SECAM R-Y LEVEL (PVM-1351Q/1354Q only)
- 1) Input a SECAM color bar.
- 2) Connect the oscilloscope probe to IC404 Pin 41 or TP401.
- 3) Put the unit into service mode.
- 4) Adjust R-Y LEVE SECAM so that the tops of the waveform line up as in the diagram below. (Fig. 26)

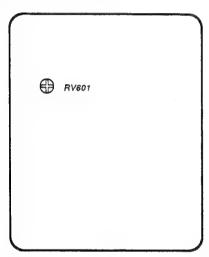


# 10. Writing the adjustment results

1. Write the adjustment results into memory.

# 5-2. G BOARD ADJUSTMENT

G BOARD - COMPONENT SIDE -



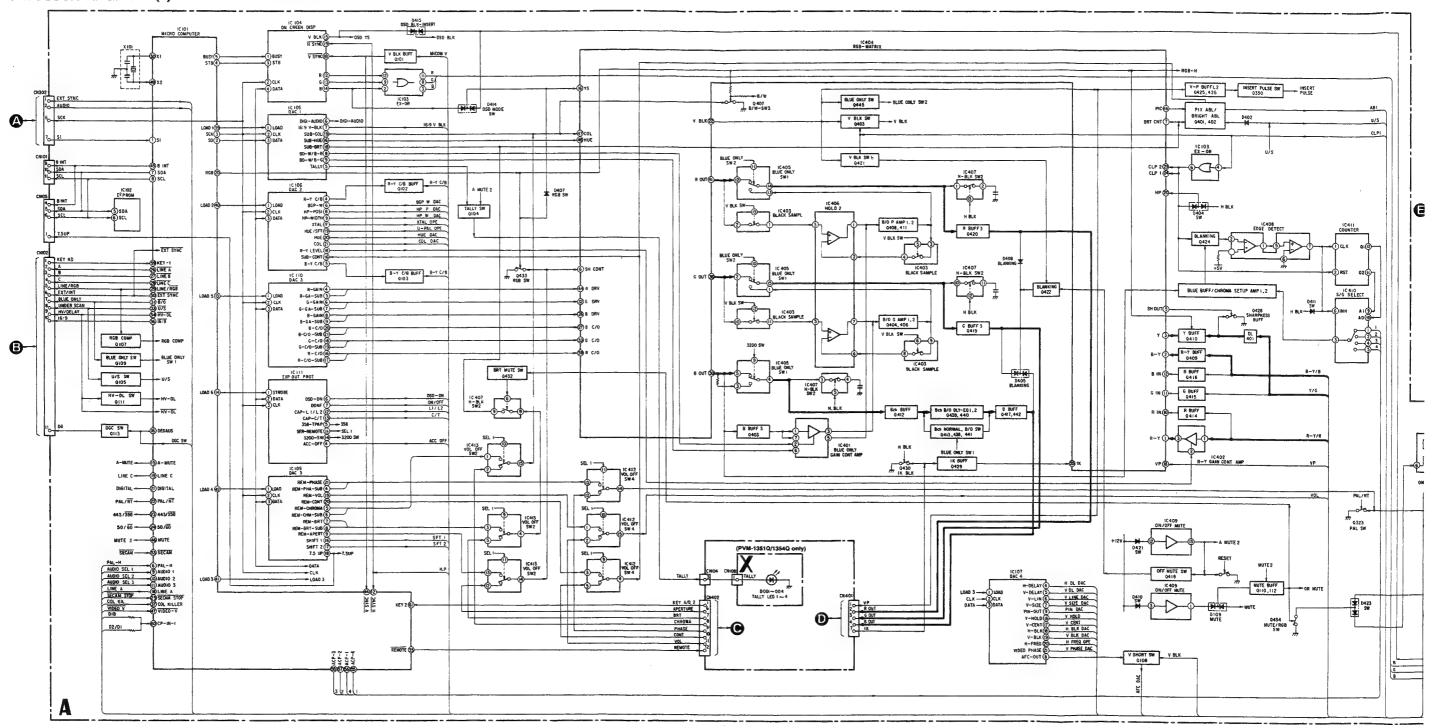
- 1. Checking the output lines
- 1) Input a color bar signal.
- 2) Adjust RV601 so that the +B voltage is 115  $\pm$  0.1 V.
- 3) Check that the output lines meet the standards below.

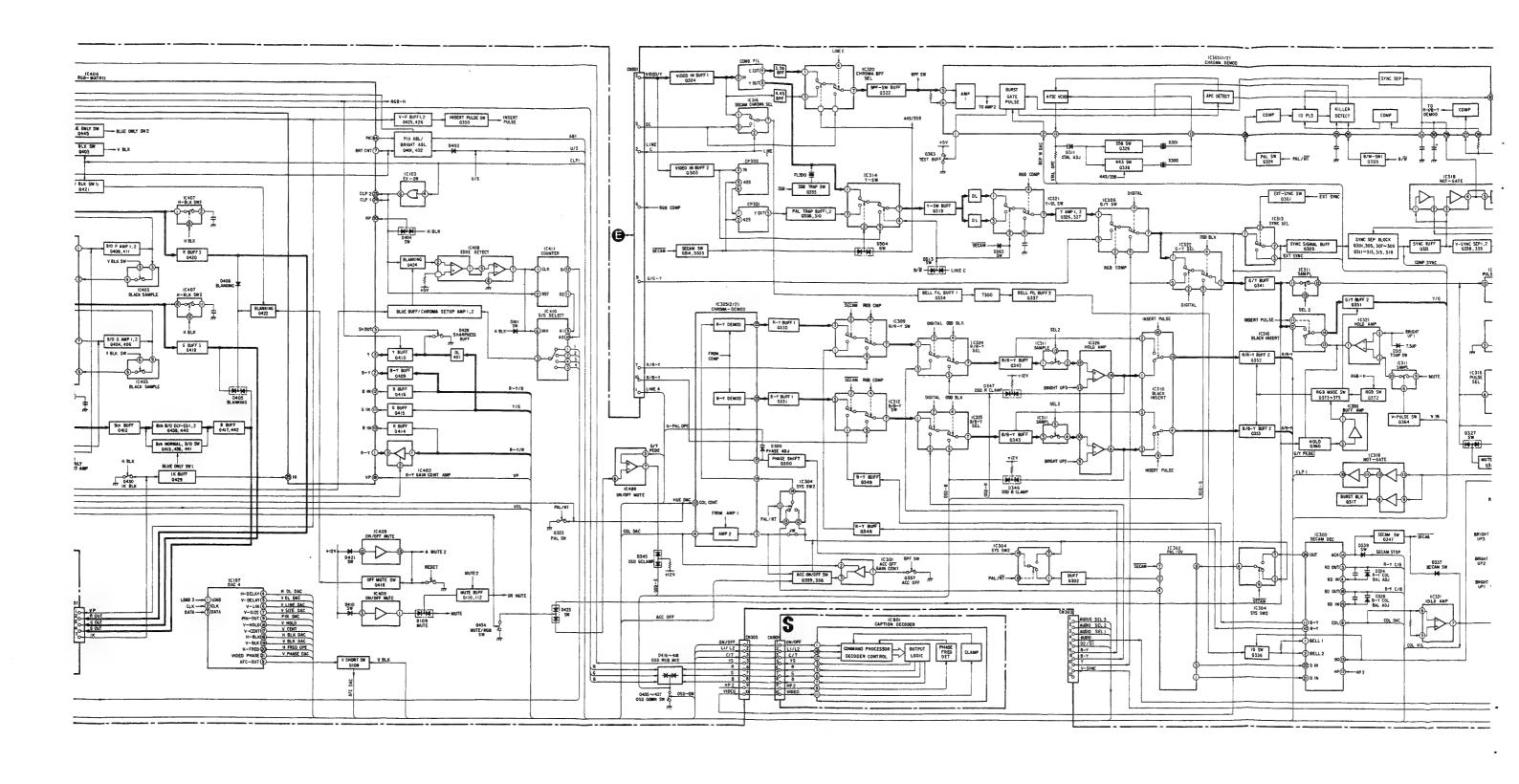
| 15V   | $16.0 \pm 1.0$ V       |
|-------|------------------------|
| 5V(A) | $5.0 \pm 0.3 V$        |
| 5V(B) | $5.0 \pm 0.5 \text{V}$ |
| 7V    | $7.2 \pm 0.5 V$        |
| - 15V | $-16.3 \pm 1.0$ V      |

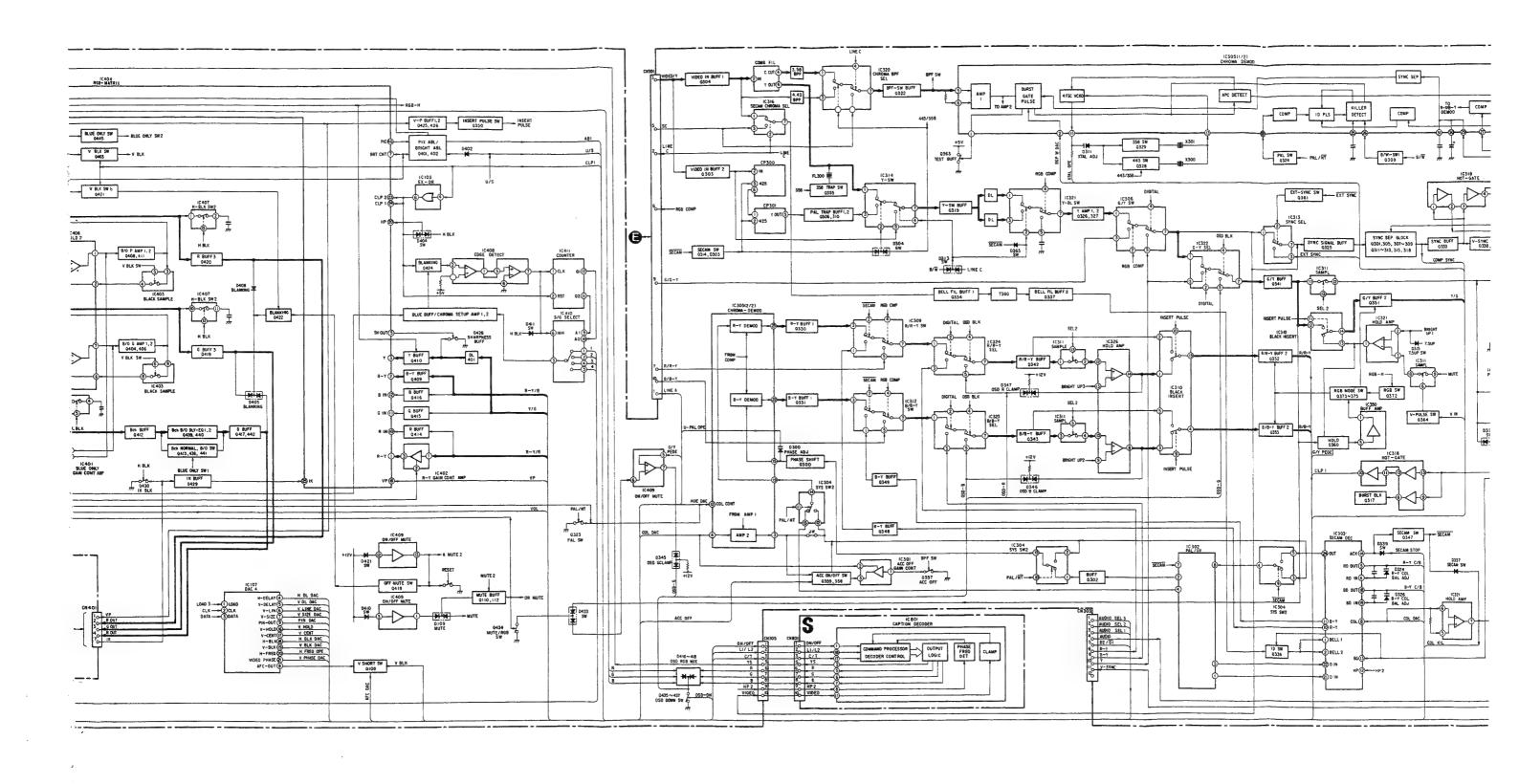
| MEMO |       |
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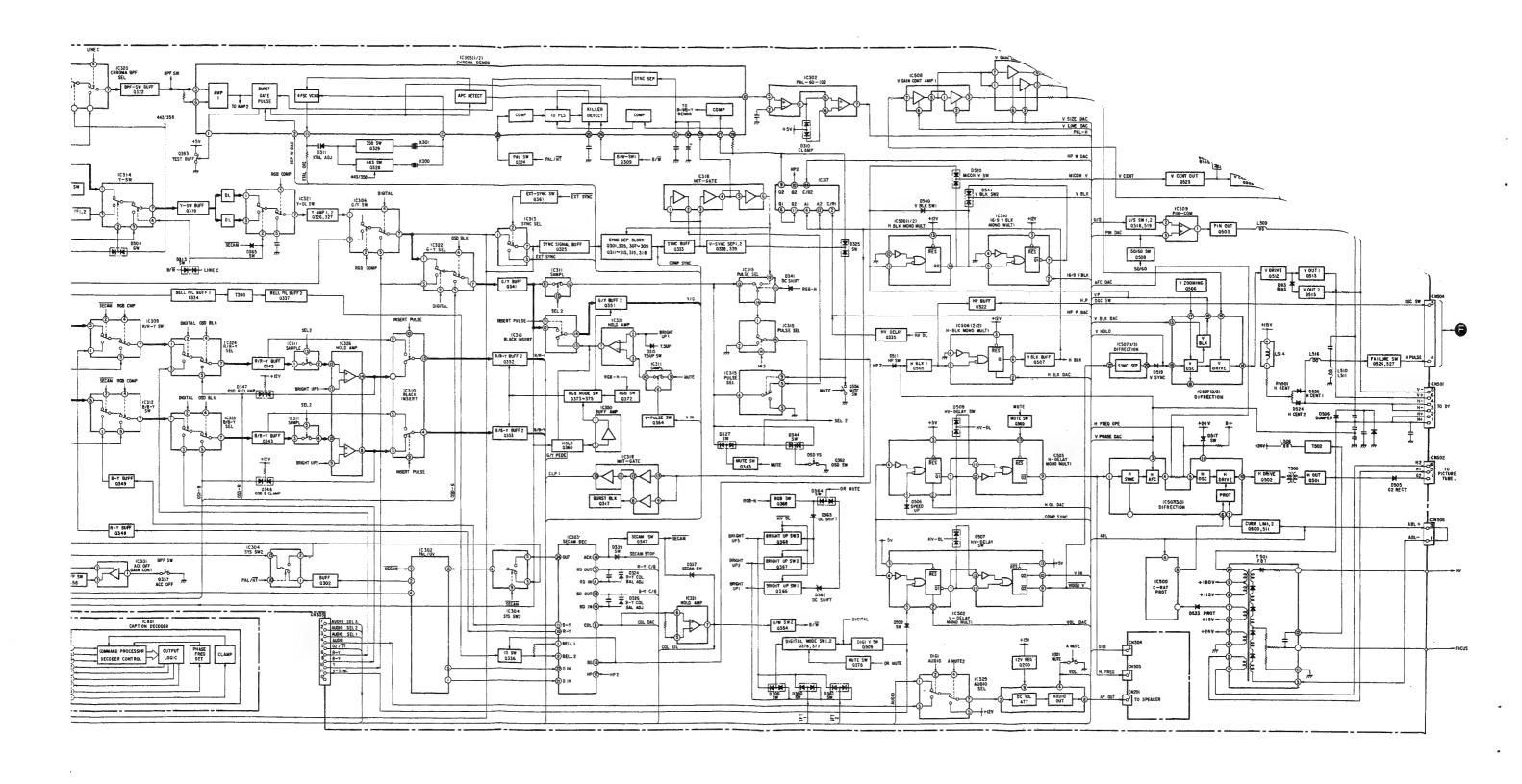
# SECTION 6 DIAGRAMS

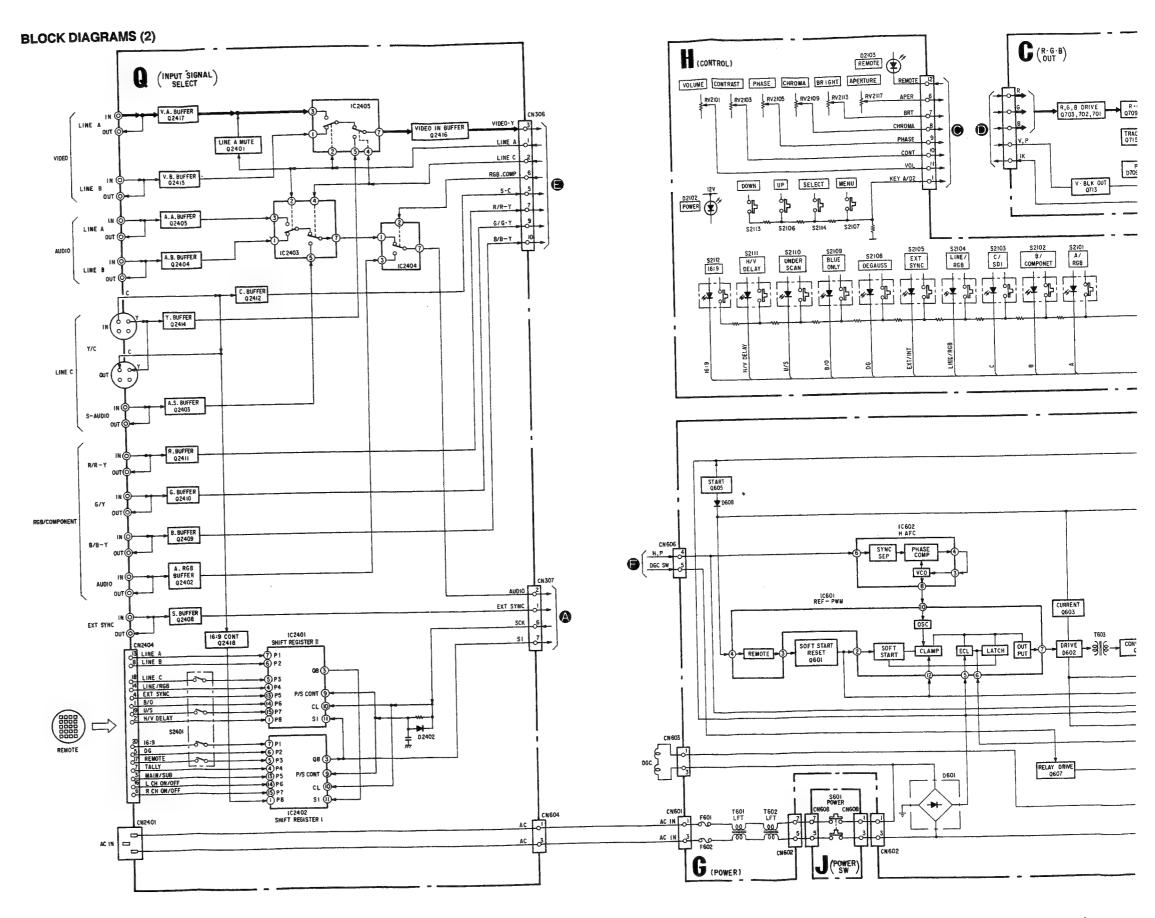
# 6-1. BLOCK DIAGRAMS (1)

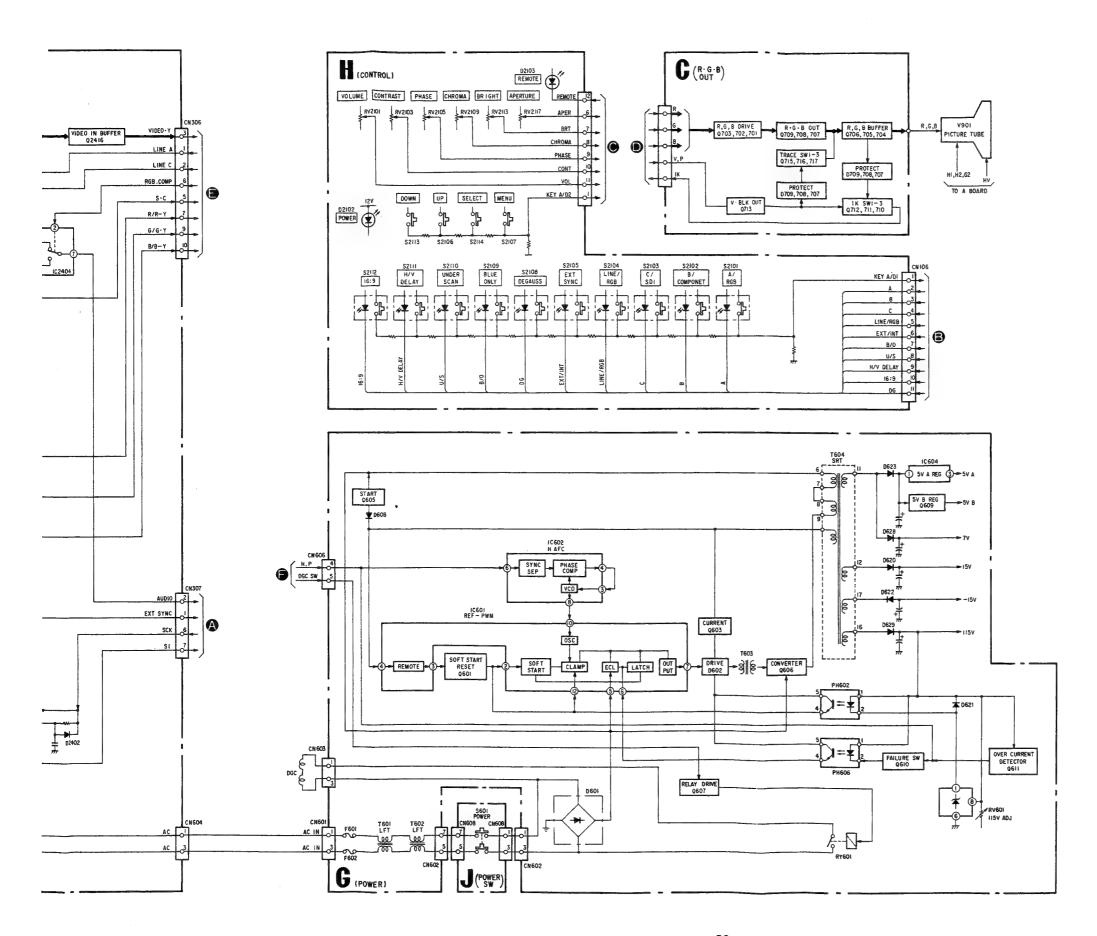


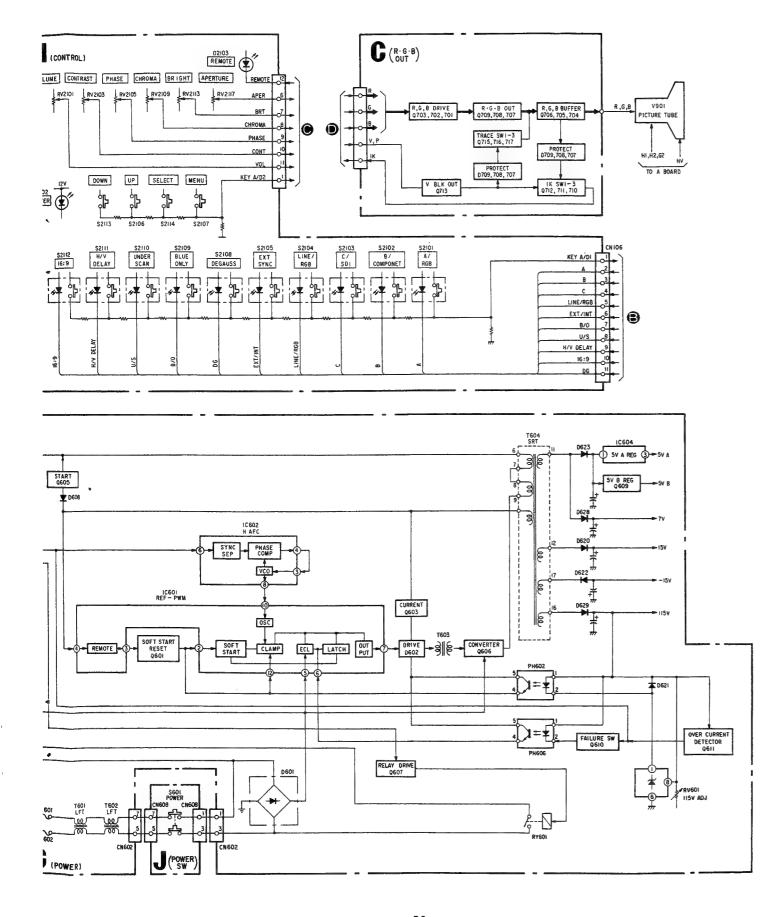


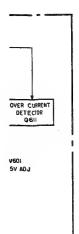


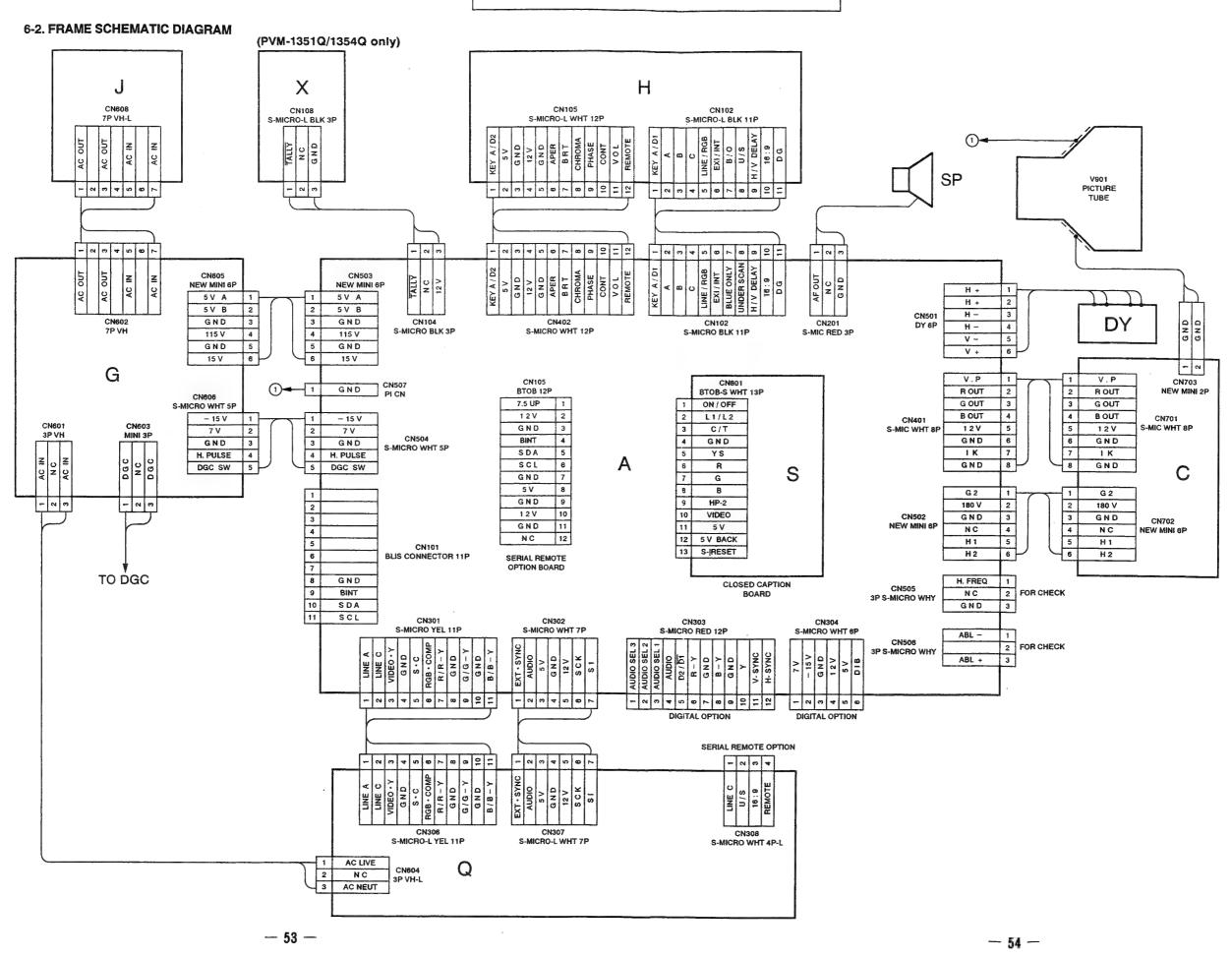


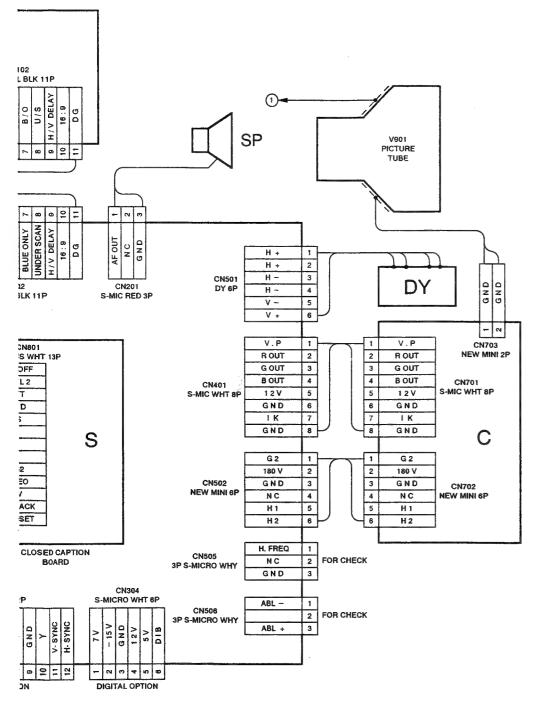






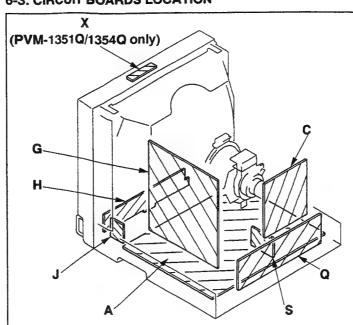






# AL REMOTE OPTION TO S 4 DO S 10 LENGTH 19 CN308 WICRO WHT 4P-L

### 6-3. CIRCUIT BOARDS LOCATION



# 6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

### Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
   50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¼ W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve
   B. unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
   Should replacement be required, replace only with the value
- originally used.
   When replacing components identified by . make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by . and

repeat the adjustment until the specified value is achieved.

(Refer to R690 adjust on Page 29 and 30.)

When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced ( )   | Adjustment (☑)              |
|---|-----------------------------|
| C506, C512, C513, C523, C549,<br>C592, D501, D533, IC500, IC507,<br>Q500, Q511,R506, R508, R515,<br>R516, R517, R518,R519, R551,<br>R1535, R1536, R1537, R1560,<br>T501 | R1535, R1536<br>(HOLD-DOWN) |

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production

tolerances.

• ===: B - bus.

• signal path.

No mark: with PAL colour-bar signal sreceived or common voltage.

 For the respective voltage ratings in SECAM, NTSC 3.58, NTSC 4.43, S-VIDEO, and ANALOG RGB modes, see the table

### Reference information

RESISTOR : RN METAL FILM SOLID : RC NONFLAMMABLE CARBON : FPRD : FUSE NONFLAMMABLE FUSIBLE NONFLAMMABLE WIREWOUND : RW NONFLAMMABLE METAL OXIDE : RS NONFLAMMABLE CEMENT : R8 : LF-8L MICRO INDUCTOR CAPACITOR : TA **TANTALUM** STYROL : PS

> : PP POLYPROPYLENE : PT MYLAR

: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE

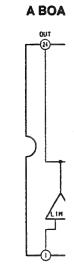
: ALB BIPOLAR : ALT HIGH TEMPERATURE

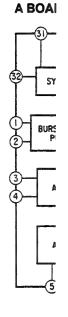
: ALR HIGH RIPPLE

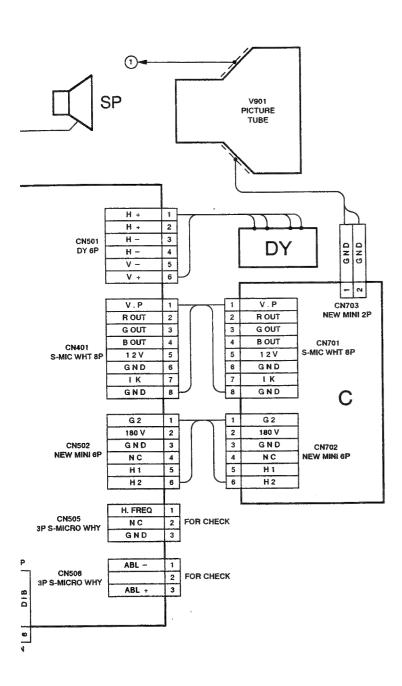
Note: The components identified by shading and mark

A are critical for safety. Replace only with part number specified.

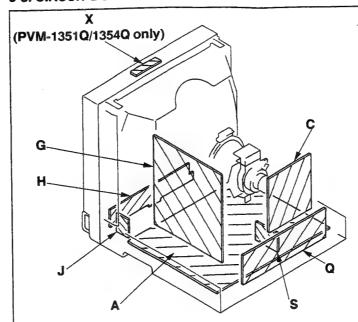
Note: Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.







# 6-3. CIRCUIT BOARDS LOCATION



# 6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

### Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
   50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¼ W

- All resistors are in ohms.
- inonflammable resistor.
- fusible resistor.
- △ : internal component.
- panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B. unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
   Should replacement be required, replace only with the value
- originally used.
   When replacing components identified by , make the necessary adjustments indicated. If results do not meet the
- specified value, change the component identified by A and repeat the adjustment until the specified value is achieved. (Refer to R690 adjust on Page 29 and 30.)
- When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced ( )  | Adjustment (►)              |
|--|-----------------------------|
| C506, C512, C513, C523, C549, C592, D501, D533, IC500, IC507, Q500, Q511,R506, R508, R515, R516, R517, R518,R519, R551, R1535, R1536, R1537, R1560, T501 | R1535, R1536<br>(HOLD-DOWN) |

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B + bus.
- === : B bus.
- signal path.
- No mark ; with PAL colour-bar signal sreceived or common
   weltage.

### voltage.

: ALT

: ALR

 For the respective voltage ratings in SECAM, NTSC 3.58, NTSC 4.43, S-VIDEO, and ANALOG RGB modes, see the table

# Reference information

| Heterence I | ntormatic | on                       |
|-------------|-----------|--------------------------|
| RESISTOR    | : RN      | METAL FILM               |
|             | : RC      | SOLID                    |
|             | : FPRD    | NONFLAMMABLE CARBON      |
|             | : FUSE    | NONFLAMMABLE FUSIBLE     |
|             | : RW      | NONFLAMMABLE WIREWOUND   |
|             | : RS      | NONFLAMMABLE METAL OXIDE |
|             | : RB      | NONFLAMMABLE CEMENT      |
| COIL        | : LF-8L   | MICRO INDUCTOR           |
| CAPACITOR   | : TA      | TANTALUM                 |
|             | : PS      | STYROL                   |
|             | : PP      | POLYPROPYLENE            |
|             | : PT      | MYLAR                    |
|             | : MPS     | METALIZED POLYESTER      |
|             | : MPP     | METALIZED POLYPROPYLENE  |
| IS          | : ALB     | BIPOLAR                  |
|             |           |                          |

Note: The components identified by shading and mark

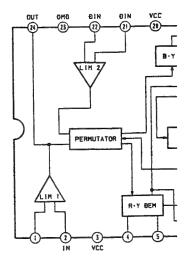
A are critical for safety. Replace only with
part number specified.

HIGH RIPPLE

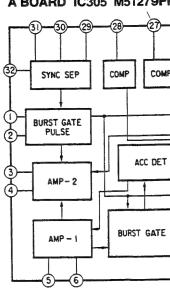
HIGH TEMPERATURE

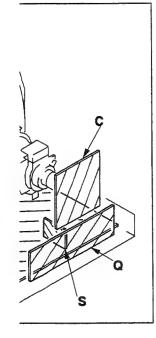
Note: Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

# A BOARD IC303 CXA1214F



# A BOARD IC305 M51279FF





### ) SCHEMATIC DIAGRAMS

ed. pF: µµF lytics. one for rating

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sic schematic or each set in ion. with the value

is achieved.

to perform the

5, R1536 D-DOWN)

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- · Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances
- : B + bus.
- signal path.
- No mark: with PAL colour-bar signal sreceived or common
- For the respective voltage ratings in SECAM, NTSC 3.58, NTSC 4.43, S-VIDEO, and ANALOG RGB modes, see the table

### Reference information

|   | RESISTOR  | : RN    | METAL FILM               |
|---|-----------|---------|--------------------------|
|   |           | : RC    | SOLID                    |
|   |           | : FPRD  | NONFLAMMABLE CARBON      |
|   |           | : FUSE  | NONFLAMMABLE FUSIBLE     |
|   |           | : RW    | NONFLAMMABLE WIREWOUND   |
|   |           | : RS    | NONFLAMMABLE METAL OXIDE |
|   |           | : RB    | NONFLAMMABLE CEMENT      |
|   | COIL      | : LF-8L | MICRO INDUCTOR           |
|   | CAPACITOR | : TA    | TANTALUM                 |
|   |           | : PS    | STYROL                   |
|   |           | : PP    | POLYPROPYLENE            |
|   |           | : PT    | MYLAR                    |
|   |           | : MPS   | METALIZED POLYESTER      |
| _ | •         | : MPP   | METALIZED POLYPROPYLENE  |
| V | S         | : ALB   | BIPOLAR                  |
|   |           |         |                          |

: ALT HIGH TEMPERATURE

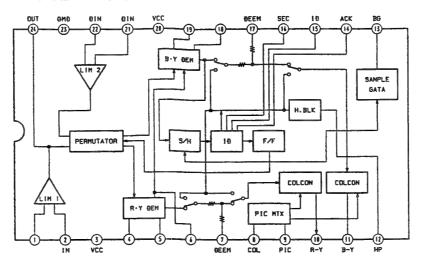
: ALR HIGH RIPPLE

Note: The components identified by shading and mark

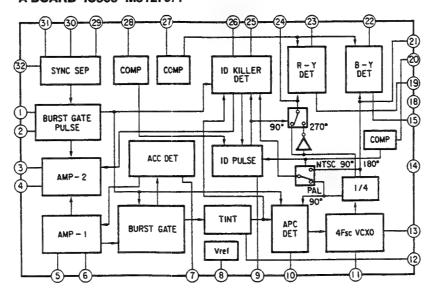
A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

### A BOARD IC303 CXA1214P



# A BOARD IC305 M51279FP



PVM-1350/1351Q/1354Q

MICON, RGB-MATRIX, DAC,
ON SCREEN DISPLAY, ON/OFF MUTE,
VOL OFF SW, BLACK-SAMPLING, RGB SW]

[CHROMA DEMOD, SECAM CHROMA SELECT, SYSTEM SW,
SYNC SELECT, B/B-Y SW, R/R-Y SW, G/Y SW,
AUDIO SELECT, SECAM DECORDER, HOLD AMP]

[H/V OUT, DEFLECTION SYSTEM,
SUDIO OUT]

Note:

: Pattern of the rear side.

- A BOARD -

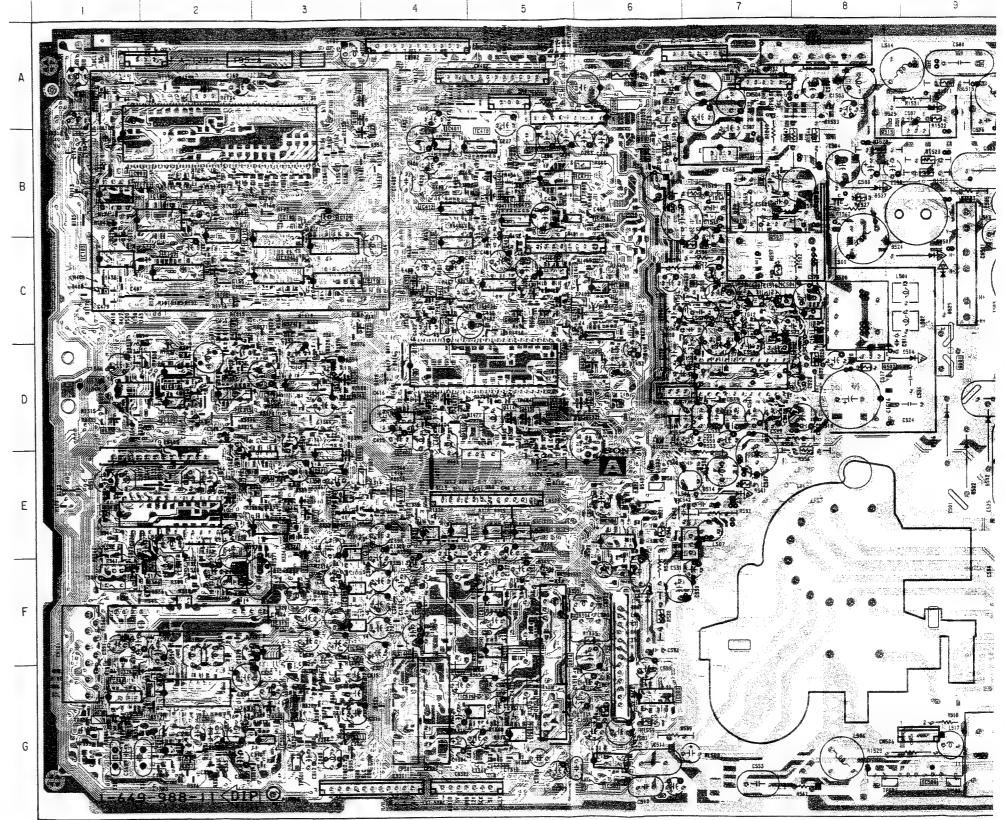
(Component Side)

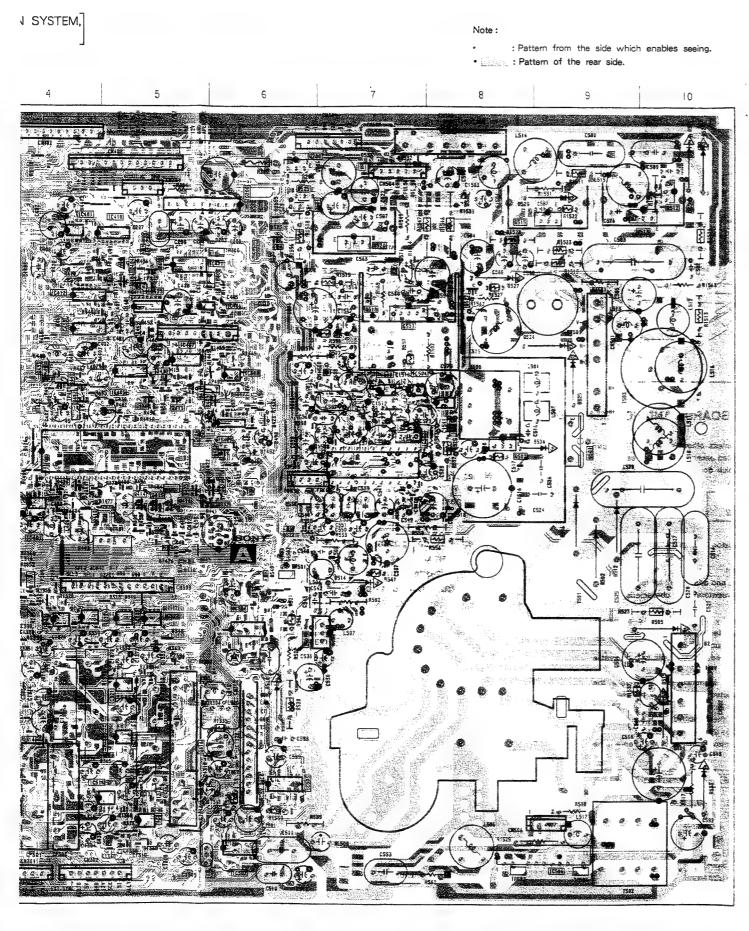
| COMP | ONEN. | TSIDE |
|------|-------|-------|
|------|-------|-------|

| COMPONE | COMPONENT SIDE |       |       |        |        |      |        |
|---------|----------------|-------|-------|--------|--------|------|--------|
| 10      | ;              | IC503 | G-6   | Q410   | D-4    | D332 | E-3    |
| 10101   |                | IC504 | C-7   | Q411   | B-5    | D335 | F-1    |
| IC101   | B-2            | IC505 | E-6   | Q412   | C-5    | D336 | F-1    |
| IC102   | B-1            | IC506 | E-6   | Q413   | C-5    | D338 | E-3    |
| IC103   | C-1            | IC507 | D-7   | Q414   | D-5    | D339 | E-2    |
| IC104   | B-1            | IC508 | C-7   | Q415   | D-5    | D341 | C-3    |
| IC105   | B-3            | IC509 | C-7   | Q416   | D-5    | D348 | E-5    |
| IC106   | C-3            | IC510 | E-2   | Q425   | D-5    | D349 | E-5    |
| IC107   | C-2            |       |       | Q426   | D-5    | D350 | E-4    |
| IC109   | C-3            | TRANS | ISTOR | Q429   | C-5    | D351 | B-3    |
| IC110   | C-3            | Q102  | C-2   | Q430   | D-5    | D352 | E-4    |
| IC111   | B-2            | 0103  | C-2   | Q432   | C-5    | D360 | C-3    |
| IC200   | A-5            | Q104  | B-2   | Q433   | C-4    | D361 | C-3    |
| IC301   | G-2            | Q105  | A-3   | Q435   | D-4    | D362 | E-2    |
| IC302   | G-2            | Q107  | A-3   | Q436   | D-4    | D365 | G-4    |
| IC303   | E-1            | Q108  | C-2   | Q437   | D-4    | D380 | D-2    |
| IC304   | G-1            | 0109  | B-3   | Q438   | C-5    | D381 | D-2    |
| IC305   | G-2            | Q110  | A - 1 | Q440   | C-4    | D406 | C-1    |
| IC306   | F-3            | 0112  | D-5   | Q441   | C-4    | D413 | E-5    |
| IC309   | F-3            | 0200  | A-6   | Q442   | C-4    | D414 | D-4    |
| IC310   | D-3            | Q300  | G-2   | Q445   | C-5    | D415 | E-5    |
| IC311   | E-3            | 0308  | G-3   | Q501   | D-9    | D416 | D-4    |
| IC312   | E-3            | Q311  | G-3   | Q502   | D-8    | D417 | D-4    |
| IC313   | F-2            | Q314  | F-4   | Q503   | B-7    | D418 | D-3    |
| IC314   | G-4            | 0316  | F-5   | Q512   | A - 10 | D423 | C-6    |
| IC315   | D-2            | 0324  | G-1   | Q513   | A-9    | D424 | B-5    |
| IC316   | G-5            | Q335  | D-1   | Q515   | 8-8    | D502 | E-9    |
| IC317   | D-1            | Q341  | E-3   | Q518   | B-7    | D504 | D-8    |
| IC318   | D-2            | Q342  | E-3   | Q520   | B-7    | D505 | E-10   |
| IC320   | F-5            | Q343  | E-4   | Q523   | B-6    | D506 | D-9    |
| IC321   | F-5            | Q346  | F-1   | Q524   | A-6    | D510 | F-6    |
| IC322   | E-5            | Q347  | E-2   | Q525   | A-6    | D512 | D-9    |
| IC323   | E-5            | Q348  | E-2   | Q527   | B-8    | D514 | E-7    |
| IC324   | E-4            | Q353  | D-3   |        |        | D515 | F-10   |
| IC325   | E-4            | Q354  | E-3   | DIC    | DE     | D520 | E-6    |
| IC326   | E-2            | 0355  | F-5   | D104   | B-1    | D522 | D-6    |
| IC350   | D-2            | Q356  | D-2   | D105   | B - 1  | D524 | C-8    |
| IC401   | B-4            | Q357  | G-2   | D109   | A-1    | D525 | C-9    |
| IC402   | D-4            | 0358  | G-1   | D110   | E-5    | D527 | B-8    |
| IC403   | B-5            | 0359  | G-1   | D112   | A-1    | D528 | A = 10 |
| IC404   | D-4            | 0360  | D-2   | D113   | B-4    | D529 | A - 8  |
| 1C405   | C-5            | 0362  | D-3   | D114   | F-2    | D530 | A-10   |
| IC406   | B-5            | Q365  | E-3   | D300 - | G-2    | D533 | G - 10 |
| IC407   | C-5            | Q366  | E-3   | D301   | D-2    | D535 | B-6    |
| 1C408   | C-6            | Q372  | C-3   | D305   | G-3    | D537 | A-7    |
| IC409   | C-6            | 0373  | D-3   | D313   | G-5    | D538 | D-6    |
| IC410   | 8-4            | Q374  | C-3   | D314   | C-1    | D539 | B-7    |
| IC411   | 8-5            | Q404  | B-5   | D318   | E-4    | D540 | E-6    |
| IC412   | B-4            | Q406  | B-5   | D319   | E-5    | D541 | F-3    |
| IC413   | C-4            | Q408  | B-5   | D327   | D-3    |      |        |
| IC502   | G-6            | l     | 1     | 1      |        | L    |        |



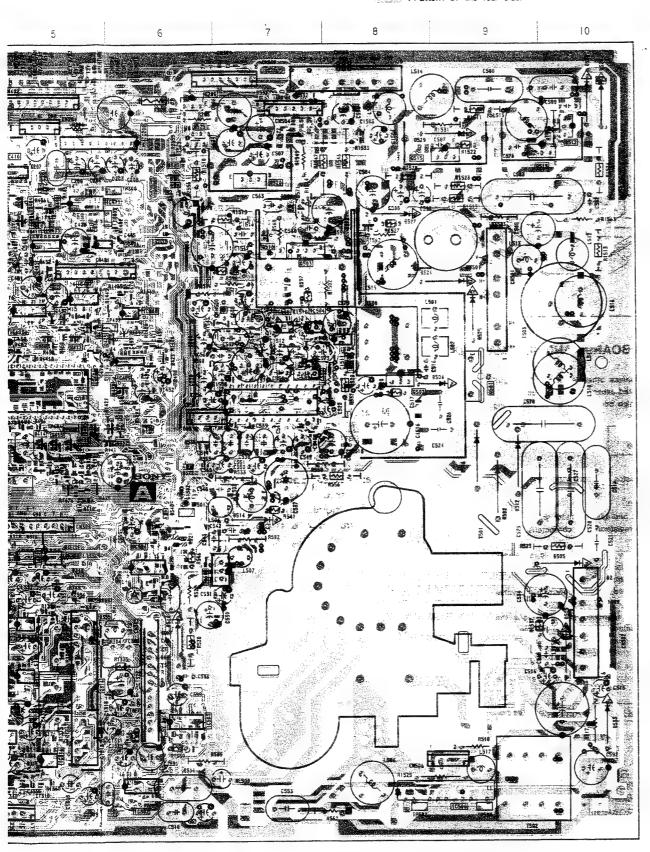
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



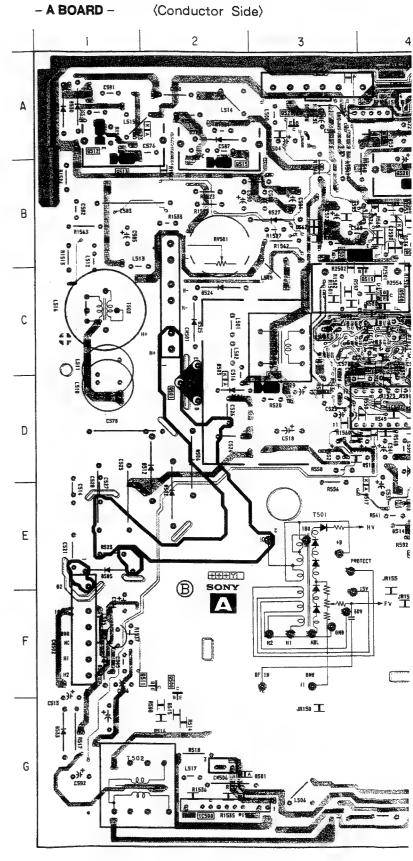


|              |            |              |                |              |            |              |            |     | – A BOARD –          | (Conductor        | Side〉  |
|--------------|------------|--------------|----------------|--------------|------------|--------------|------------|-----|----------------------|-------------------|--|
|              |            |              |                |              |            |              |            |     | I                    | 2                 |  |
| ONDUCT       | OR SIDE    |              |                |              |            |              |            |     | A Special control of |                   |  |
| 10           |            | Q345         | D-8            | 0517         | C-4        | D408         | B-5        |     | C591                 |                   |  |
| IC101        | A-9        | Q349<br>Q350 | E-9            | Q519<br>Q520 | C-4        | D410         | C-5        | A   | 0-0                  |                   |  |
| IC102        | B - 10     | Q350         | D-8            | Q520<br>Q522 | B-4<br>E-5 | D411<br>D421 | B-6<br>C-5 | _ ~ | 0-0                  | and 0000-0        | 514 D  |
| IC108        | B-8        | Q351         | D-8            | Q524         | A-5        | D421         | C-5        |     | - LSIS               |                   | 0  |
| IC200        | A-5        | Q361         | F-8            | Q525         | A-4        | D425         | C-5        |     |                      | 6 0 H             |  |
| 1C303        | E-9        | Q363         | G-9            | Q526         | A-3        | D425         | C-6        |     | 652 "                | C576              | 3  |
| IC404        | D-6        | 0364         | D-8            | 4320         | ^~3        | D420         | B-6        |     | 0 0 0513             | BE SEE            | <b>0515</b>  |
| IC505        | E-4        | 0367         | E-8            | DIC          | DE         | D500         | G-5        |     |                      | The second second | 0 6  |
| IC507        | D-4        | Q368         | E-8            | <b> </b>     |            | D501         | G-2        |     | •                    | 0                 | ္ ၁၉   |
|              |            | Q369         | E-8            | D101         | B - 10     | D502         | E-2        | _ n | -C583                | • •               | 大 5 名 大 三 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二 二  |
| LD V VIC     | ISTOR      | Q375         | D-8            | D102         | B-9        | D503         | C-2        | В   | 0 2                  | R1555             | 0 15   |
| MANS         | 10100      | Q401         | B-6            | D103         | B-9        | D504         | D-2        |     | RIS43                | #                 | 9-   |
| Q101         | A-9        | Q402         | B-6            | D107         | B-9        | D505         | E-1        |     |                      | e RV50            | 9  |
| Q111         | C - 10     | Q403         | B-6            | D200         | A - 4      | D506         | D-2        |     | 1513                 | 513 6 2-\ ,1,     | / 4  |
| Q113         | A-7        | Q405         | C-6            | D301         | G-8        | D507         | G-5        |     | 0                    | - 0               |  |
| Q201         | A-6        | Q407         | C-7            | D302         | F-9        | D508         | G-5        |     | <b>*</b>             | 9 H- 0            | ¢  |
| Q301         | G-8        | Q409         | D-7            | D303         | F-7        | D509         | G-5        |     |                      | H- 0 8524         |  |
| 0302         | G-10       | Q417         | C-6            | D304         | G-7        | D510         | F-5        |     |                      | )   H-            | a  |
| 0303         | G-6        | 0418         | B-5            | D307<br>D309 | G-8<br>G-8 | D512         | D-2        | С   |                      |                   | 155  |
| Q304<br>Q305 | G-6<br>G-8 | 0419         | C-6            | D310         | G-8        | 0513         | E-5        |     | 4                    |                   |  |
| Q306         | G-7        | Q420         | C-6            | D311         | G-9        | D514         | E-4        |     |                      | H. 6 °            | 6 1502   |
| Q307         | G-8        | Q421         | B-5            | D315         | E-8        | D515         | F-1        |     |                      | - JG #            | e a a  |
| Q309         | G-8        | 0422         | B-5            | D317         | D-9        | D516         | F-5        |     | <b>E</b> • • )       |                   | =  |
| Q310         | G-7        | 0423         | C-5            | D320         | D-9        | D517         | D-4        |     | =                    |                   | 14- 0  |
| Q312         | G-8        | 0424         | C-5            | D322         | D-9        | D518         | E-5        |     |                      |                   | G RS   |
| Q313         | G-8        | Q428<br>Q431 | D-6<br>B-5     | D323         | C-9        | D519<br>D522 | C-4        |     | C578                 |                   | 3  |
| Q315         | G-8        | Q434         | C-5            | D324         | E-9        | D522<br>D523 | A-4<br>A-2 | D   | •                    | 20 0/ 0 I         | _ ቆ  |
| Q318         | G-8        | Q439         | C-6            | D325         | D-8        | D524         | C-2        |     |                      |                   | 5<br>2<br>2<br>3<br>4<br>4<br>5<br>4<br>5<br>5<br>7<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7 |
| Q319         | F-7        | 0443         | C-5            | D326         | E-9        | D525         | C-2        |     | 9 22 9               |                   |  |
| Q321         | G-8        | Q444         | B-5            | D333         | D-8        | D526         | B-4        |     | 9 2 02 kmg           |                   |  |
| Q323         | G - 10     | Q500         | F-2            | D337         | E-8        | D527         | B-3        |     | 2 2 2                |                   |  |
| 0325         | F-8        | Q501         | D-2            | D344         | D-8<br>E-7 | D528         | A-1        |     |                      | •                 |  |
| Q326<br>Q327 | F-6        | Q502         | D-3            | D345<br>D346 | E-7        | D529         | A-2        |     |                      |                   |  |
| Q328         | F-6<br>G-9 | Q503         | B-3            | D340         | E-7        | D530         | A – 1      | E   | . (0 0               | <b>\ </b> %// ]   | <b></b> °  |
| Q329         | G-9        | Q505         | E-5            | D353         | D-8        | D531         | A-4        |     | G R523               |                   | 100  |
| Q330         | F-9        | Q506         | B-4            | D354         | B-7        | D532         | A-4        |     |                      |                   |  |
| Q331         | F-9        | Q507         | E-5            | D355         | C-7        | D533         | G-1        |     | 10 3 15 Jan          | <del>(111)</del>  | 17F  |
| Q332         | G - 10     | 0508         | C-4            | D363         | E-8        | D534         | B-4        |     | 62                   | B son             |  |
| Q333         | D-9        | 0509         | G-5            | D364         | E-8        | D536         | A-5        |     |                      |                   |  |
| Q334         | F-9        | 0511         | F-2            | D401         | B-7        |              |            |     |                      |                   | <b>3</b>    -  |
| Q336         | E - 10     | Q512<br>Q513 | A - 1<br>A - 1 | D404         | D-6        | VARI         | ABI F      |     |                      |                   |  |
| Q337         | E - 10     | Q514         | B-4            | D405         | B-5        | RESIS        |            | F   | K                    |                   | #12  |
| Q338         | C-9        | Q515         | B-2            | D407         | D-7        |              |            |     |                      |                   |  |
| 0339         | D-8        | 4010         |                |              |            | RV501        | B – 2      |     |                      |                   |  |
|              |            |              |                |              |            |              |            |     |                      |                   | # IN   |
|              |            |              |                |              |            |              |            |     | (513 a)F o           | BIE               |  |
|              |            |              |                |              |            |              |            |     | C 0 1 1              |                   |  |
|              |            |              |                |              |            |              |            |     |                      | - H               |  |
|              |            |              |                |              |            |              |            |     |                      |                   |  |
|              |            |              |                |              |            |              |            |     | L50:                 | RS16              | _  |
|              |            |              |                |              |            |              |            | G   | , i                  | LS17 3            |  |
|              |            |              |                |              |            |              |            |     | C592                 | © € CM506         | A C  |
|              |            |              |                |              |            |              |            |     |                      | T1536             |  |
|              |            |              |                |              |            |              |            | i   | -                    |                   | 00 10  |

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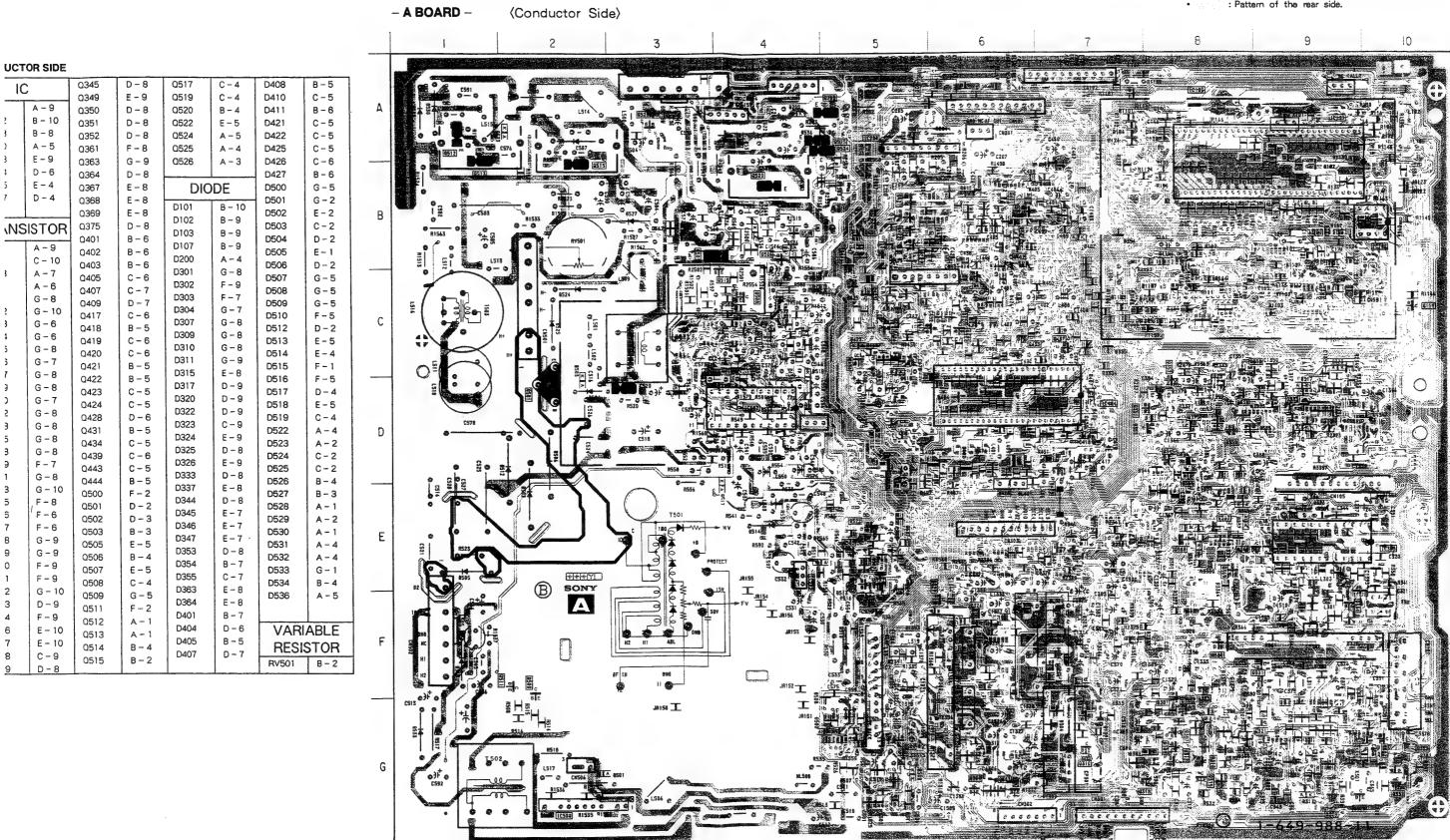


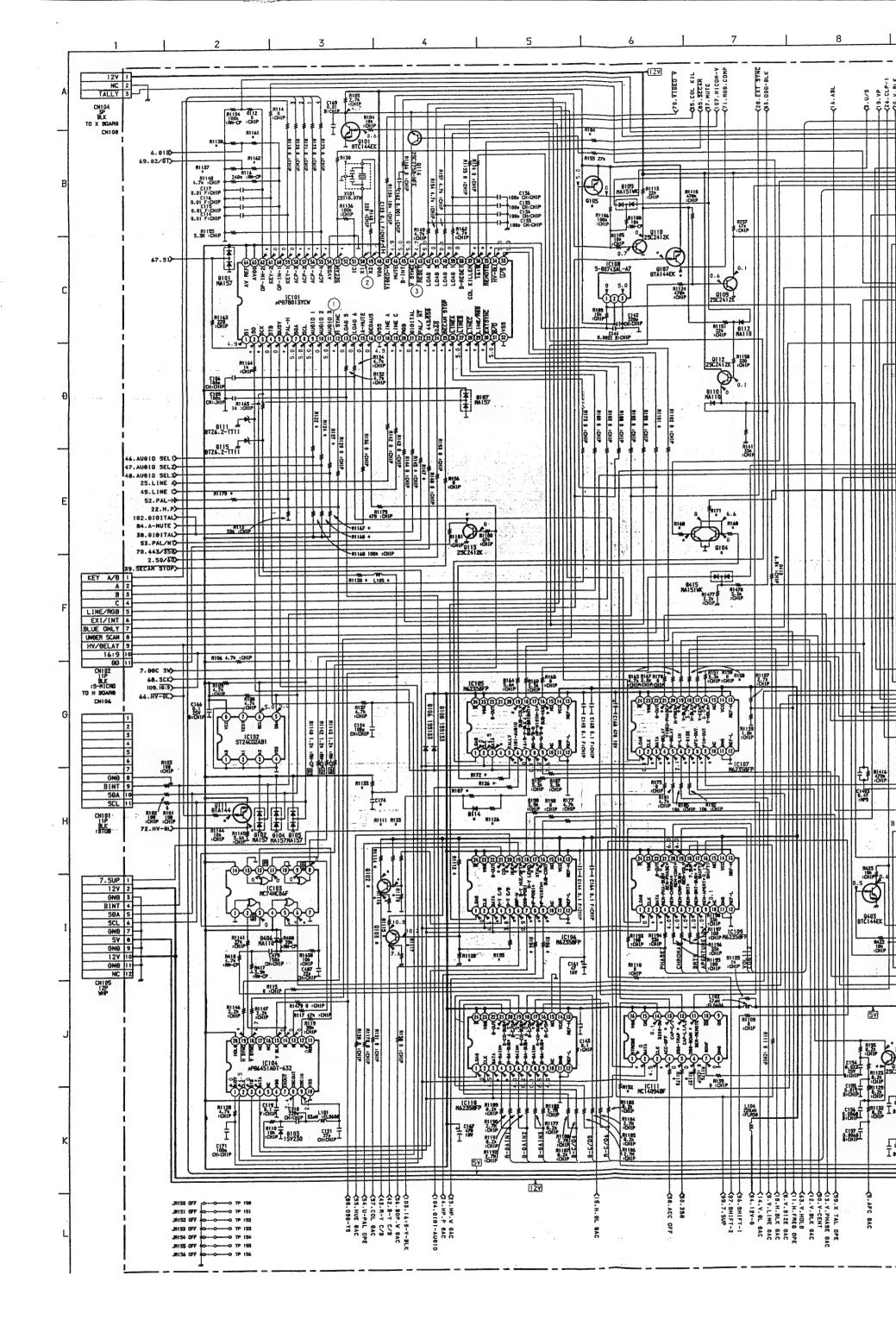
| IC           |            | Q345         | D-8        | Q517 | C-4        | D408         | B - 5      |
|--------------|------------|--------------|------------|------|------------|--------------|------------|
|              |            | Q349         | E-9        | Q519 | C-4        | D410         | C-5        |
| C101         | A-9        | Q350         | D-8        | Q520 | B-4        | D411         | B + 6      |
| 0102         | B-10       | Q351         | D-8        | Q522 | E-5        | D421         | C - 5      |
| 2108         | B-8        | Q352         | D-8        | Q524 | A-5        | D422         | C-5        |
| 2200         | A-5        | Q361         | F-8        | Q525 | A - 4      | D425         | C-5        |
| 0303         | E-9        | Q363         | G-9        | Q526 | A-3        | D426         | C-6        |
| C404         | D-6        | Q364         | D-8        |      | <u> </u>   | D427         | 8-6        |
| 0505         | E-4        | Q367         | E-8        | DIC  | DE         | D500         | G-5        |
| 2507         | D-4        | Q368         | E-8        | D101 | B - 10     | D501         | G-2        |
|              |            | Q369         | E-8        | D102 | B-9        | D502         | E-2        |
| <b>RANS</b>  | ISTOR      | Q375         | D-8        | D103 | B-9        | D503         | C-2        |
| 2101         | A-9        | Q401         | B-6        | D107 | B-9        | D504         | D-2        |
| 2111         | C-10       | Q402         | B-6        | D200 | A-4        | D505         | E-1        |
| 113          | A-7        | Q403         | B-6        | D301 | G-8        | D506         | D-2        |
| 201          | A-6        | 0405         | C-6        | D302 | F-9        | D507         | G-5        |
| 2301         | G-8        | 0407         | C-7        | D303 | F-7        | D508         | G-5        |
| 2302         | G - 10     | 0409         | D-7        | D304 | G-7        | D509         | G-5        |
| 2303         | G-6        | Q417         | C-6        | D307 | G-8        | D510         | F-5        |
| 2304         | G-6        | Q418         | B-5        | D309 | G-8        | D512         | D-2        |
| 2305         | G-8        | Q419         | C-6        | D310 | G-8        | D513         | E-5        |
| 2306         | G-7        | Q420         | C-6        | D311 | G-9        | D514<br>D515 | E-4<br>F-1 |
| 2307         | G-8        | Q421         | B-5        | D315 | E-8        | D516         | F-5        |
| 2309         | G-8        | Q422<br>Q423 | B-5<br>C-5 | D317 | D-9        | D517         | D-4        |
| 0310         | G - 7      | 0423         | C-5        | D320 | D-9        | D518         | E-5        |
| 0312         | G-8        | Q424<br>Q428 | D-6        | D322 | D = 9      | D519         | C-4        |
| Q313         | G-8        | Q431         | B-5        | D323 | C - 9      | D522         | A-4        |
| Q315         | G-8        | Q434         | C-5        | D324 | E-9        | D523         | A-2        |
| Q318         | G-8        | Q439         | C-6        | D325 | D-8        | D524         | C-2        |
| Q319         | F-7        | Q443         | C-5        | D326 | E-9        | D525         | C-2        |
| Q321         | G-8        | 0444         | B-5        | D333 | D-8        | D526         | B-4        |
| Q323         | G - 10     | Q500         | F-2        | D337 | E-8        | D527         | B-3        |
| Q325         | F-8        | Q501         | D-2        | D344 | D-8        | D528         | A-1        |
| Q326         | F-6        | Q502         | D-3        | D345 | E-7        | D529         | A-2        |
| Q327         | F-6        | 0503         | B-3        | D346 | E-7        | D530         | A-1        |
| Q328         | G-9        | Q505         | E-5        | D347 | E-7        | D531         | A-4        |
| Q329         | G-9        | Q506         | B-4        | D353 | D-8<br>B-7 | D532         | A - 4      |
| Q330         | F-9        | Q507         | E-5        | D354 | 1          | D533         | G-1        |
| Q331         | F-9        | Q508         | C-4        | D355 | C-7        | D534         | B-4        |
| 0332         | G-10       | Q509         | G-5        | D363 | E-8        | D536         | A-5        |
| Q333         | D-9        | Q511         | F-2        | D364 | B-7        |              |            |
| Q334         | F-9        | Q512         | A-1        | D401 | 1          | 1/40         | ADLE       |
| Q336         | E-10       | Q513         | A-1        | D404 | D-6        |              | ABLE       |
| Q337         | E-10       | 0514         | B-4        | D405 | B-5<br>D-7 | RESI         | STOR       |
| Q338<br>Q339 | C-9<br>D-8 | Q515         | B-2        | D407 | 10-1       | RV501        | B-2        |

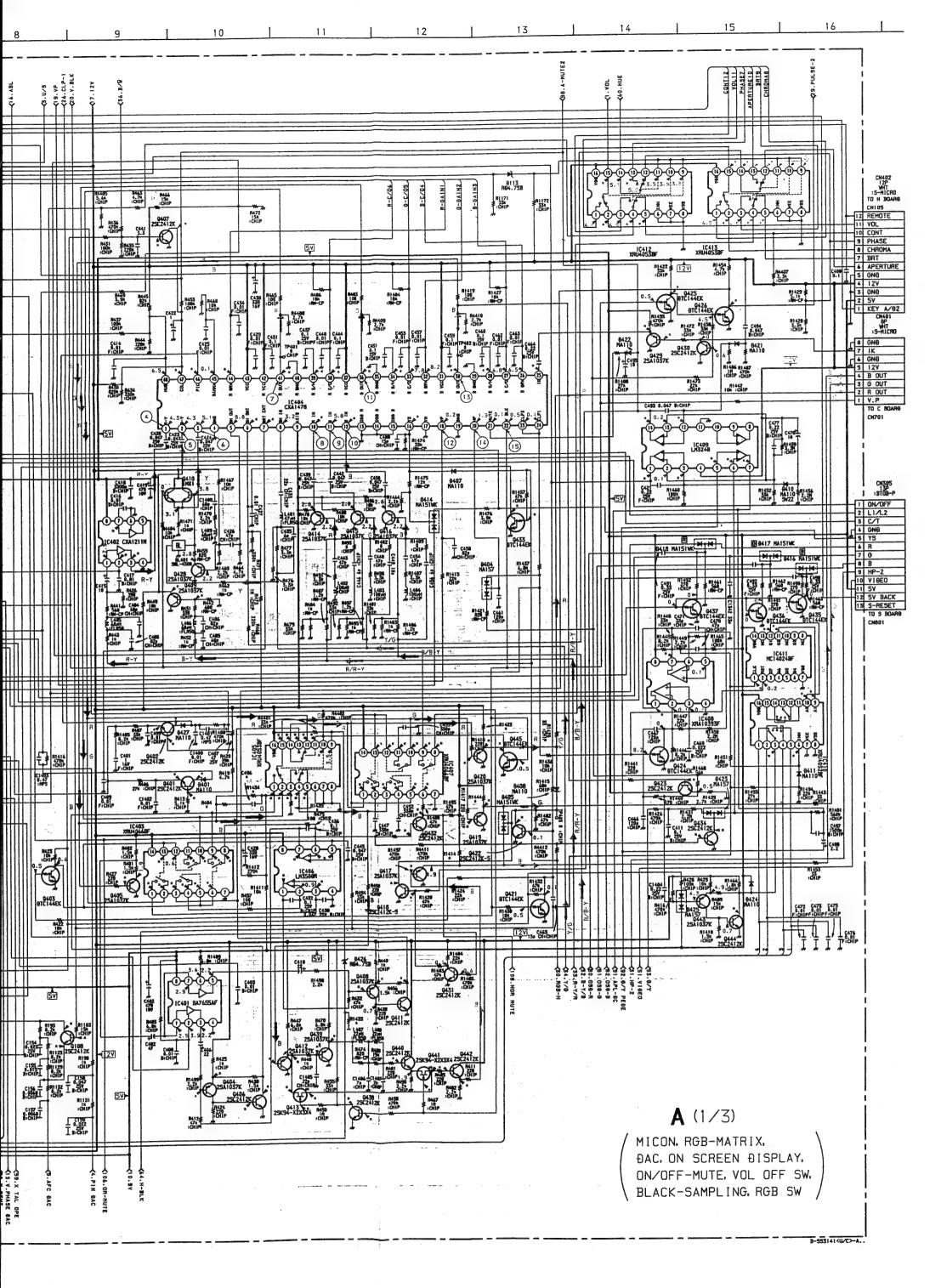


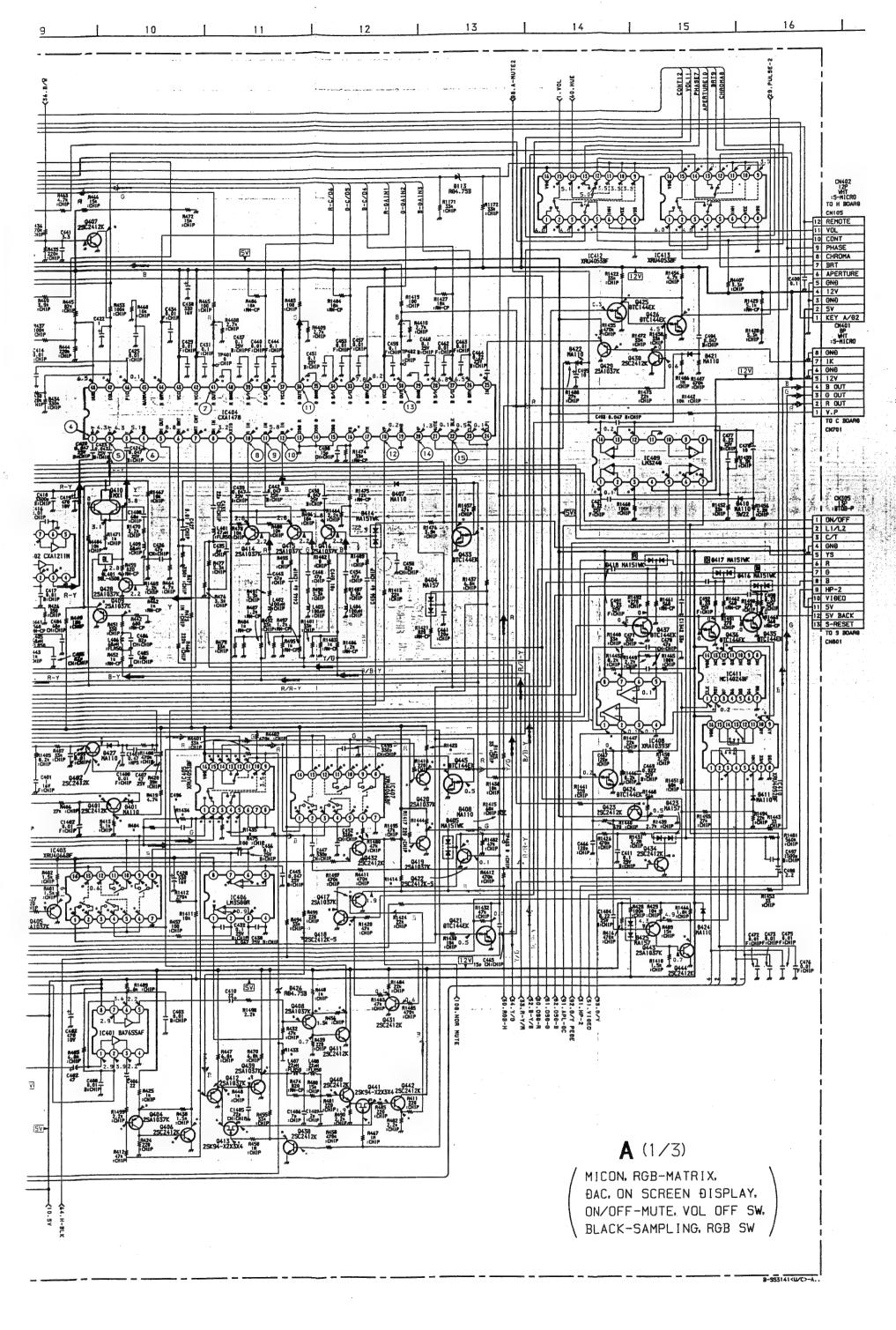
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- : Pattern from the side which enables seeing.









### . A ROARD WAVEFORMS

|  | • A BOARD WAVEFORMS  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  | 1)<br>4.3 Vp-p(H)  | 2<br>5.6 Vp-p (10MHz)  | 3<br>4.8 Vp-p ( V )                              |  |  |  |  |  |
|  | PMO. 3 Vp-p ( H ) SEC.M 32 Vp-p ( H )                            | (4)<br>INTSC3.58.4.43<br>0.28 Vp-p ( H )<br>5-V1860<br>0.35 Vp-p ( H )   | (S)  |  |  |  |  |  |
|  | 5<br>-24 ML24 ML24<br>NT3C3.52 Vp-p ( H )<br>NT3C4.43 Vp-p ( H ) | (S)<br>-4/Ml/Ml/Ml/4<br>5-71969<br>0.45 Vp-p (H)   | (6)<br>PAL (57 Vp-p ( H ) 95CAM (0.45 Vp-p ( H ) |  |  |  |  |  |
|  | 6 1.52 Vp-p ( H )  | PAL 2.4 Vp-p ( H ) SECAM 2.3 Vp-p ( H )  | 7 L L L L L L L L L L L L L L L L L L L          |  |  |  |  |  |
|  | 7<br>1<br>2.4 Vp-p ( H )   | ⑦<br>  | ®  MM MM MM  AMALOS 2008 p-p ( H )               |  |  |  |  |  |
|  | 9  | 10<br>   | PAL 2.6 Vp-p ( H ) SECAN 2.5 Vp-p ( H )          |  |  |  |  |  |
| 4  | MTSC3.58<br>2.4 Vp-p ( H )<br>2.5 Vp-p ( H )                     | 5-VIOCO 2.4 Vp-p ( H )   | (H)  |  |  |  |  |  |
| The State of the S | 4.6 Vp-p ( V )   | 1. 9 vp - v H )  | 2 V <sub>2</sub> V <sub>2</sub> (H) q-qv 8.17    |  |  |  |  |  |
|  | ()<br>••••••••••••••••••••••••••••••••••••                       | (3)<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1 | 3.7 Vp-p(H)                                      |  |  |  |  |  |
| 4. 3   | (9)  |  | Part Vai   |  |  |  |  |  |

# f A BOARD

| Ref   | LOCATION   | PVM-1350            | PVM-<br>1351Q/1354Q |
|-------|------------|---------------------|---------------------|
| C174  | H-3        | _                   | 47P                 |
| C496  | H - 10     | -                   | 82P                 |
| CN104 | A-1        |                     | 3P                  |
| CN105 | 1-1        | -                   | 12P                 |
| D114  | H-4        |                     | MA110               |
| D426  | J-11       | - 1                 | R04.7S8             |
| L105  | F-3        | -                   | 100 µ H             |
| Q102  | 1-3        | -                   | 2SA1037K            |
| Q103  | 1-3        | -                   | 2SA1037K            |
| Q104  | E-7        | -                   | MXIT110             |
| Q105  | 8-5        | -                   | DTA144EK            |
| R107  | H-4        | _                   | 4.7K                |
| R122  | 0-3        |                     |                     |
| R124  | D-3        | _                   |                     |
| R126  | G-5        | _                   |                     |
| R127  | D-3        | _ '                 |                     |
| R130  | 8-3        | 150K                | 120K                |
| R133  | H-3        | -                   | SBK                 |
| R135  | 1-5        | _                   | 33K                 |
| R145  | D-4        | 150K                |                     |
| R147  | E-4        |                     |                     |
| R152  | J-6        | _                   |                     |
| R156  | E-4        | _                   |                     |
| R158  | G-7        | _                   | 0                   |
| R168  | E-7        | _                   | 33K                 |
| R169  | E-6        |                     | 270K                |
| R171  | E-7        | _                   | 180                 |
| R172  | G-4        | l -                 |                     |
| R174  | 8-4        |                     |                     |
| R164  | 8-5        |                     |                     |
| R188  | 1-5        | 1 -                 |                     |
| R194  | 1-5        |                     |                     |
| R404  | H - 10     | _                   | 150                 |
| R1101 | D-6        | l -                 |                     |
| Ritti | H-3        |                     | 4.7K                |
|       |            | -                   | 4.7K                |
| R1112 | H-4<br>H-3 | -                   | 1K                  |
| R1115 | 1-3        | -                   | 1K                  |
| R1116 |            | -                   | 12K                 |
|       | 1-3        | 1 -                 | 6.8K                |
| R1117 | 1-3        | -                   |                     |
| R1119 | 1-3        | -                   | 62K                 |
| R1120 | 1-4        | -                   | 47K                 |
| R1126 | H-4        | -                   | 470                 |
| R1127 | 1-6        | -                   | 0                   |
| R1130 | F-3        | -                   | 1K                  |
| R1133 | H 3        | -                   | 6.8K                |
| R1137 | A-2        | -                   | 10K                 |
| R1138 | A-2        | -                   | 22K                 |
| R1161 | A-2        | -                   | 1M                  |
| R1162 | A-2        | -                   | 470K                |
| R1167 | E-3        | -                   | 10010               |
| R1168 | E-3        | -                   | 100K                |
| R1109 | E-3        | -                   | 100K                |
| R1170 | E-2        | -<br>-<br>-<br>2.2K | 47K                 |
| R1173 | J-6        |                     | 0                   |
| R1414 | H - 12     | 2.210               | 3.3K                |
| R1423 | G - 12     | 2.2K                | 3.3K                |
| R1433 | J-11       | -                   | 33K                 |
| R1434 | H - 10     | ۰                   | 580                 |
| R1435 | H - 10     |                     | 1.8K                |
| R1444 | H - 12     | 2.2K                | 3.3K                |

# A BOARD \* MARK

| A BO                                  | ARD *          | MARI         | <            |              |             |               |
|---------------------------------------|----------------|--------------|--------------|--------------|-------------|---------------|
|                                       | PAL            | SECAM        | NTSC<br>3.58 | NISC<br>4.43 | S-VIDEO     | ANALOG<br>RGB |
| IC101 (2)                             | 2.3            | 2.4          | 2.2          | 22           | 2.0         | 2.3           |
| (3)<br>(6)                            | 4.1            | 3.4          | 1 4.5        | 0.1          | 0           | 4.5           |
| 10                                    | 3.4            | 3.5          | 3.5          | 35           | 3.1         | 3.5           |
| (g)<br>(;);                           | 0              | 0            | 0            | 3            | 0           | 4.9           |
| <b>3</b>                              | 4.9<br>5.0     | 5.0          | 0            | 5.0          | 0           | 0             |
| - <del> </del>                        | 5.0            | 5.0<br>5.0   | 0            | 0            | 0           | 0             |
| 23                                    | 0              | 5.0          | 0            | 0.1          | 0           | 0             |
| 38<br>38                              | 5.0            | 5.0          | 5.0          | 5.0          | 4.9         | 0.1<br>5.0    |
| 83                                    | 5.0            | 5.0          | 5.0          | 50           | 4.9         | 0.1           |
|                                       | 5.0            | 5.0          | 5.0          | 50           | 5.0<br>3.9  | 3.9           |
| 38                                    | 4.0            | 4.0          | 4.6          | F. 0         | 3.6         | 3.7           |
| <u>0</u>                              | 0.3            | 0.1          | 0.1          | 07           | 42          | 4.3           |
| 430                                   | 4.0            | 3.4          | 3.6          | 3.7          | 3.9         | 40            |
| \$)<br>(3)                            | 3.0            | 0.9<br>2.5   | 1.0          | 2.3          | 3.1         | 1.9           |
| 59                                    | 3.6            | 3.0          | 2.9          | 3.2          | 3.9         | 4.0           |
| \$                                    | 4.0            | 4.0          | 4.0          | 0.2          | 2.9         | 4.0           |
| IC103 ®                               | 2.3            | 2.3          | 2.2          | 22           | 2.0         | 2.3           |
| 9                                     | 3.5            | 3.5<br>2.3   | 3.5<br>2.2   | 3.5<br>2.2   | 3.1         | 3.5<br>2.3    |
| (C105 ③                               | 2.3            | 0.1          | 0.1          | )            | 11.8        | 0             |
| (6)                                   | 2.5            | 2.7          | 2.7          | 5.4          | 2.8         | 2.5           |
| IC106 (3)                             | 2.3            | 5.4<br>2.3   | 5.4          | 2.2          | 6.6<br>2.1  | 2.3           |
| (\$)                                  | 5.4            | 5.4          | 5.4          | 5.4          | 4.1         | 5.4           |
| <u></u>                               | 7.8            | 7.8          | 7.8          | 7.7          | 0.6<br>5.5  | 7.8           |
| (9)                                   | 5.1            | 5.1          | 5.1          | 5.1          | 4.0         | 5.1           |
| <u> </u>                              | 3.1            | 10.5         | 10.5<br>2.5  | 3.1          | 10.9<br>2.7 | 10.5<br>2.5   |
| - 0                                   | 2.4            | 4.6          | 2.1          | 2.2          | 21          | 3.2           |
| (3)                                   | 6.3<br>3.6     | 6.3<br>3.6   | 4.8          | 9.0          | 10.7        | 3.7<br>9.5    |
| <b>(1)</b>                            | 0.8            | 1.8          | 0.4          | 0.3          | 2.4         | 3.1           |
| C107 ②                                | 4.6<br>2.3     | 4.5<br>2.3   | 2.2          | 45           | 2.1         | 4.5<br>0      |
| •                                     | 2.8            | 2.8          | 2.8          | 28           | 3.3         | 2.9           |
| <u> </u>                              | 2.9            | 2.9          | 1.4<br>2.9   | 2.9          | 2.3         | 2.9           |
| 🕲                                     | 2.6            | 2.6          | 2.6          | 26           | 2.9         | 2.6           |
| <b>9</b>                              | 2.9            | 2.9          | 2.9          | 2.9          | 2.6         | 2.9           |
| •                                     | 3.2            | 3.2          | 5.4          | 5.4          | 5.3         | 5.4           |
| <b>3</b>                              | 4.5<br>6.3     | 4.6<br>6.3   | 5.0<br>6.1   | 5.0<br>6.1   | 6.0         | 5.0           |
| C109 (2)                              | 4.6            | 4.5          | 4.5          | 4.5          | 4.4         | 4.4           |
| <u> </u>                              | 2.3            | 2.3          | 11.9         | 119          | 21          | 0.1           |
|                                       | 11.9           | 11.9         | 0.1          | 0            | 0.1         | 1.1.8         |
| C110 (3)                              | 7.2            | 7.2          | 7.2          | 7.2          | 8.3         | 2.2<br>7.2    |
| · · · · · · · · · · · · · · · · · · · | 5.8            | 5.8          | 5.8          | 5.8          | 6.2         | 5.8           |
| <b>0</b>                              | 11.9           | 11.9<br>7.9  | 11.9<br>7.9  | 7.9          | 7.8         | 7.9           |
| <b>Ø</b>                              | 3.7            | 3.7          | 3.5          | 3.5          | 3.5         | 3.6           |
| C111 ①                                | 0.3            | 0.3          | 0.3          | 0.3          | 0.1         | 0.3           |
| 0                                     | 0              | 5.0          | 5.0          | 5.0          | 0           | 5.0           |
| (1)<br>C402 (2)                       | 5.0<br>3.1 ec. | 5.0          | 5.0          | 5.0<br>3.0   | 3.0         | 5.0           |
| (Ja) 2 (D)                            | 0              | 2.3          | 2.3          | 0            | 2.2         | 2.2           |
| <u>Ø</u><br>IC403 ①                   | 2.9<br>0.8     | 2.9<br>0.8   | 0.8          | 0<br>0.B     | 2.9         | : 2.9         |
| Ø                                     | 1.2            | 1.2          | 0.8          | 0.8          | 1.2         | 0.9           |
| (3)<br>(2)                            | 1,4            | 0.8          | 0.9          | 0.9          | 0.8         | 1,4           |
| 3                                     | 0.6            | 0.5          | 0.6          | 0.6          | 0.5         | 0.6           |
| (6)                                   | 0.5            | 0.6          | 0.6          | 06           | 0.6         | 0             |
| (B)<br>(D)                            | 1.0            | 1.0          | 1.0          | ! O          | 1.4         | 1.6           |
| (0)                                   | 1.4            | 1.4          | 1.0          | , 0          | 1.2         | 1.5           |
| - 0                                   | 0.9            | 0.6          | 0.6          | 0.6          | 0.8         | 0.6           |
| C404 (6)                              | 3.0            | 3.0          | 3.0          | 3.0          | 45          | 0             |
| <u>O</u>                              | 4.9<br>5.6     | 4.9<br>5.6   | 4.9<br>5.6   | 4.9<br>5.6   | 5.6         | 5.8           |
| 0                                     | 5.6            | 5.6          | 5.6          | 5.6          | 5.6         | 5.8           |
|                                       | 3.6            | 0.1<br>4.0   | 4.1          | 4.2          | 4.0         | 3.5           |
| Ø.                                    | 7.1 10         | 6.6          | 0.8          | 30           | 7.7         | 7.9           |
| Ø:                                    | 7.0            | 7.3          | 8.1          | 7.8          | 7.8         | 7.8           |
| Œ                                     | 1.4            | 1.3          | 1.2          | : A ·        | 1.2         | - 1.5         |
| Ó8                                    | 7.8<br>6.9     | 7.8<br>7.1   | 7.7<br>7.8   | 7.8 -        | 7.6         | 7.7<br>7.6    |
| (i)                                   | 1.2            | 1.2          | 1.0          | 0            | 1.2         | 1.3           |
| Ø,                                    | 7.2            | 7.2          | 7.2          | - 2          | 8.3 - 1     | 7.2           |
| <u>@</u>                              | 7.2<br>6.6     | 66           | 6.5          | . 2<br>. 6   | 5.5         | 0             |
| C405 ①                                | 1.6            | 1.5          | 1,1          | 3            | 1.2         | 1.5           |
| (I)                                   | 1.4            | 1.4          | 0.9          | 0            | 1.1/        | 1.2           |
| (2)                                   | 1.4            | 1.3          | 1.0          | 0            | 1.2         | 1,4           |
| (g)                                   | 0.5            | 0.5          | 0.6          | .O           | 0.3         | 0.2           |
| . 0                                   | 0.5            | 0.5          | 0.5          | .3           | 0.3         | 0.2           |
| <b>D</b>                              | 1.2            | 1.3          | 0.8          | . 3          | 1.3.        | 1,4           |
| Ġ:                                    | 1.2            | 1.2          | 0.8<br>1.C   | .2           | 1.2         | 1.3           |
| C406 ①                                | 4.8            | 5.1          | 4ê           | 8            | 4.5         | 5.1           |
| (1)                                   | 0.8            | 0.9          | 0.9          | 9            | 0.E.<br>0.E | 1.0           |
| ©<br>©                                | 1.0            | 1.0          | 1,1          | : 1          | 0.8         | 1,1           |
| (C407 (t)                             | 5.1            | 5.1          | 4.9<br>0.9   | : 9<br>2     | 1.2         | 5.1           |
| © (C407 (t)                           | 0.4            | - 0.1        | 0.5          | .3           | 0 4         | 0.5           |
| 3)                                    | . 14           | 1.3          | 10           | 3            | 1.2         | 1,4<br>5,7    |
| (a)<br>(b)                            | 2.0            | 1.8          | 2.0          | 2.0          | 2.0         | 20            |
| (6)                                   | 11.7           | 10.7         | 313          | 3            | 117         | 11.2          |
| (§)                                   | 5.5            | 5.5<br>5.5   | E E E        | 5            | 5.4         | 6 fr          |
| 19                                    | 1.4            | 1.4          | 10           | 3            | 1.2         | 1 5           |
| <u>1</u> 5<br>(3                      | 0.6            | - 0.1<br>i.7 | 2.0          | 6            | 0.5<br>2.0  | (,e<br>2.6    |
| 1,2                                   | 2.0            | 1.7          | 2.0          | 0            | 2.0         | 3/4           |
| 0408 ( <u>0</u> )                     | 31             | 29           |              | 1            | 3-          | 3 -4          |
| raje (§)                              | 0              | 6.8          | 9.0          | 14           | 9           | 7.5           |
| - 3 <sub>2</sub>                      | . Ú            | 96<br>59     | C.4          | 3            |             | 10            |
| · <u>*</u>                            | 5.9            | 5.9          | €.3          | 0            | 50          | 9.9           |
| 15<br>15                              | 5.9            | 5.9          | 5.3<br>0.5   | 2            | 5.9         | \$ 12<br>- V  |
|                                       |                |              |              |              | 1           |               |

|                | PAL         | SECAM   | NTSC       | NTSC<br>4.43 | S-VIOEO | ANALOG |
|----------------|-------------|---------|------------|--------------|---------|--------|
|                | 1           | 1       | 3.58       | <del> </del> |         | RGB    |
| IC:10 ①        | 3.5         | 1 40    | 4.0        | 40           | 0       | 3.9    |
| (0)            | 3.0         | 3.1     | 1.4        | 3.1          | 2.3     | 1.5    |
| (3)            | 3.5         | 3.5     | 3.0        | 3.8          | 3.9     | 3.9    |
| . 0            | 0.5         | 1.3     | 1 1.1      | 1.1          | 3.1     | 1.7    |
| 9              | 4.0         | 40      | 4.0        | 3.9          | 0       | 0      |
| ( <u>§</u> )   | 0           | 2.0     | 1.9        | 1.8          | 2.5     | 1.4    |
| 13             | 2.0         | 2.3     | 2.3        | 2.0          | 1 18    | 3.0    |
| 1C411 ()       | 4:          | 4.0     | 3.9        | 3.8          | 4 2     | 4.1    |
| 0              | 1 18        | 2.3     | 1.9        | 1.8          | 2.5     | 3.0    |
| (0<br>(C412 (C | 1 2.0       |         | 1 0.4      | 0.4          | 5.9     | 0.5    |
| (C412 (5)      | 6.9         |         | 8.9        | 8.9          | 1 8.9   | 8.3    |
| \$             | 9:0         |         | 9.0        | 8.9          | 8.9     | 8.3    |
| 12             | 5.0         |         | 6.0        | 6.0          | 5.0     | 0      |
| 15             | 64          |         | 0.4        | 0.4          | 5.9 **! | 0.5    |
| (C413 (2)      | 1 79        | 8.0     | i 8.0      | 8.0          | 0.4     | 6.9    |
| (4)            | 1 0         | 5.5     | 5.5        | 5.5          | 5.4     | 0      |
| <u>,</u>       | 5.5         |         | 5.5        | 5.5          | 5.4     | 9.5    |
| - 17           | 3.1         |         | 3.1        | 3.1          | 9       | 5.1    |
| 3              | 3.1         | 31      | 3.1        | 3.1          | 60      | 5.1    |
| - 12           | 7.9         | 1 7.9   | 0.8        | 7.9          | 6.3     | 6.9    |
| C102 8         | 10.9        | 10.9    | 10.9       | 10.9         | 10.7    | 10.9   |
| C              | 3.:         | 6.1     | 8.1        | 8.1          | 1 11 2  | 8.1    |
| 5              | 1 11.5      |         | 111.5      | 11.5         | 11.3    | 11.5   |
| 0104-1 8       | 5.0         |         | - 0.2      | 5.0          | 5.0     | 0.1    |
| Q107 B         | 5.0         |         | 5.0        | 5.0          | 0       | 5.0    |
| G108 C         | 1 28        | 2 5     | 2.6        | 2.6          | 29      | 2.5    |
| 5136 5         | 26          | 2.5     | 2.5        | 2.6          | 2.9     | 2.5    |
| CIII B         | E.C         |         | 0          | 0            | 49      | 4.9    |
| C              |             | 1 0.4   | C          | 0            | 0.4     | 0.4    |
| Q113 C         | 4.1         | 4.3     | 4.2        | 4.2          | 3.8     | - 4.0  |
|                |             | 0.8     | 1.5        | 1.6          | 1.2     | 1.0    |
| C              | 7.5         | 5.5     | 5.0        | 5.2          | 8.4     | 10.0   |
|                | 1.4         | 1 1.5   | 3.2        | 3.4          | 3.1     | 1.0    |
| Q402 B         | 0.5         | 0.5     | 0.5        | 0.5          | 2.4     | 0.5    |
|                | 9.5         | 7.7     | 8.1        | 7.4          | 10.4    | 6.9    |
| Q404 B         | 1.4         | 1.6     | 3.2<br>4.9 | 5.2          | 5.3     | . 5.2  |
| E              | 6.1         | 6.3     | 6.0        | 6.1          | 6.1     | 5.2    |
| Q405 B         | 1.3         | 1.3     | 1.2        | 1.1          | 1.2     | 1.4    |
| Q406 B         | 0.7         | 0.7     | 0          | 0.7          | 0.7     | 0.7    |
| C              | 1.6         | 1.5     | 1.0        | 1.5          | 1.4     | 1.6    |
| Q407 B         | 0           | 0       | 0          | 0            | 0       | 0.6    |
| c              | 6.6         | 6.6     | 6.6        | 6.6          | 5.4     | 0      |
| 0408 8         | 5.3         | 4.7     | 4.9        | 5.0          | 5.2     | 5.2    |
| Ε              | 6.0         | 6.2     | 5.9        | 6.1          | 6.0     | 6.1    |
| Q409 B         | 1.9         | 1.6     | 1.6        | 1.6          | 1.7     | 1.6    |
| E .            | 2.0         | 2.2     | 2.2        | 1.3          | 23      | 2.2    |
| Q411 C         | 1.4         | 1.4     | 0.9        | 1.3          | 1.3     | 1.4    |
| E .            | 2.0         | 1.9     | 1.7        | 1.9          | 1.8     | 2.0    |
| 0413 G         | 2.0         | - 15.1  | 1.6        | - 2.2        | 1.8     | - 2.1. |
| 0              | 2.0         | 1.9     | - 4.3      | 0            | 2.2     | 2.0    |
| S              | 2.0         | 1.9     | 1.7        | 1.9          | 1.8     | 20     |
| Q417 B         | 1.4         | 1.4     | 1.2        | 1.2          | 1.2     | 1.4    |
| Q418 C         | 2.1         | 2.1     | 1.7        | 1.7          | 1.7     | . 20   |
| Q419 B         | 1.4         | 1.4     | 1.2        | 1.1          | 1.2     | 1.5    |
| E :            | 2.0         | 1.9     | 1.7        | 1.7          | 1.8     | 20     |
| Q420 B         | 1.2         | 1.2     | 1.0        | 1.0          | 1.2     | 1.3    |
| 0422 C         | 2.1         | 2.1     | 1.6        | 1.6          | 1.8     | 2.0    |
| 0423 B         | 0.5         | 0.3     | 0.4        | 0.4          | 0.4     | 0.2    |
| C425 C         | 4.5         | 4.5     | 4.5        | 4.5          | 4.7     | 4.5    |
| Q425 C         | 0.8         | 0.8     | 0.7        | 0.7          | 0.7     | 0      |
| Q429 B         | 0.1         | 0.8     | 0.4        | 0.4          | 0.1     | 0.1    |
| Ε              | 0           | 1 - 2.3 | - 1.2      | - 1.2        | 0.4     | 0.4    |
| 0432 8         | - 0.3       | - 3.8   | - 3.4      | - 27         | - 0.1   | - 3.9  |
| C              | 11.9        | 11.6    | 11.8       | 11.8         | 12.0    | 11.5   |
| 0433 8         | 0           | - 0.1   | 0          | 0            | 0       | 2.7    |
| C 1            | 3.0         | 3.0     | 3.0        | 3.0          | 4.5     | 0      |
| Q434 B         | - 0.1       | 4.7     | 4.5        | 4.8          | 2.9     | 0.4    |
| 0438 8         | 36<br>- 0.4 |         | - 3.1      | - 24         | 0       | -2.4   |
| C C            | 11.7        | 11.4    | 11.7       | 111.7        | 11.5    | 11.7   |
| Q439 B         | 2.0         |         | 1.8        | 1.7          | 1.9     | 2.0    |
| C439 B         | 25          |         | 2.4        | 2.4          | 0       | 2.5    |
| Q440 B         |             |         | 2.5        | 2.5          |         | 2.7    |
| Q441 G         | - 11        |         | 1.7        | - 4.6        |         | - 0.7  |
| . 0            |             |         | - 8.1      | 1.9          |         | 2.0    |
| Ś              |             |         | :.6        | 1.9          | 1.8     | 2.0    |
| Q442 B I       |             |         | 1,1        | 1.1          | 11      | 2.1    |
| Carry :        | - 3         | 13      |            |              |         | 4      |
| € [            | 09 :        | 0.9     | 0.7        | 0.7          | 0.7     | 1.5    |
|                |             | 0.9     |            |              |         |        |

Schematic diagram

Schematic diagram

|                | TION             | PVM-1350  | PVM-<br>1351Q/1354Q     |
|----------------|------------------|-----------|-------------------------|
|                | - 3              | -         | DT26.2                  |
|                | 3 – 5<br>J – 7   | _         | MA151WK<br>1S2835       |
|                | G - 7            | MA110     | -                       |
|                | A - 8<br>J - 10  |           | MA100<br>MA157          |
|                | J - 10           | -         | MA157                   |
|                | I = 14<br>C = 11 | _         | ISV230TP HR3<br>MA151WK |
|                | H - 14           | -         | 1SV230TP HR3            |
|                | 8 - 11<br>1 - 15 |           | MA110<br>MAI10          |
|                | J - 18           | -         | MA110                   |
| /9             | 8 - 13<br>H - 15 | -         | MA110<br>MA110          |
| 41             | A - 12           | -         | DTZ3.6A                 |
| 344<br>3348    | E-12             | -         | MA151WK<br>MA157        |
| D349           | J-0              | -         | MA157                   |
| D350           | J-0<br>K-0       | ,-        | MA157                   |
| D351           | 1-0              | _         | MA157<br>MA157          |
| 0353           | K - 9            | -         | MA157                   |
| D354           | K-9              |           | MA157<br>MA157          |
| D362           | B - 12           | _         | RDIOSBI                 |
| D363           | 8 - 12<br>8 - 12 | -         | RD10S81<br>1S2835       |
| D364<br>D365   | 8-6              | -         | MA110                   |
| FL300          | 8-3              | -         | 0                       |
| FL401<br>IC301 | B-4<br>H-5       | -         | O<br>BA7655AF           |
| IC303          | H = 14           | -         | CXA1214P                |
| IC313          | C - 6<br>B - 12  | MM1148XFF | MM1149XFF<br>XRU40538F  |
| IC316          | 8-2              | _         | MM1148XFF               |
| IC317          | 8-9<br>8-3       | 0         | MC14588F                |
| JR306<br>L301  | 1-13             |           | 15µH                    |
| L302           | 1 15             | -         | 15µH                    |
| L303<br>L304   | J 14<br>H 15     |           | 39 µH<br>15 µH          |
| L306           | G ~ 14           | -         | 39 µH                   |
| L307<br>L317   | H - 13<br>C - 9  | -         | 15µH<br>18mmH           |
| L319           | 8 - 3            | -         | 100 µH                  |
| Q302<br>Q306   | G-2<br>D-3       | -         | 2SA1037K<br>2SC2412K    |
| Q310           | C-3              |           | 2SA1037K                |
| Q314<br>Q317   | D-4<br>G-7       | 2SC2412K  | DTA144EK                |
| Q323           | 1-6              | -         | DTC144EK                |
| Q324<br>Q328   | E-6              | -         | DTC144EK<br>2SK94       |
| Q332           | H-8              | _         | DTC144EK                |
| Q333           | C-6<br>I-12      | -         | 2SC2412K<br>2SA1037K    |
| Q334<br>Q335   | 8-8              | -         | 2SC2412K                |
| Q336           | 1-13             | -         | 25K94                   |
| Q337<br>Q339   | 1 - 13<br>C - 10 | -         | 2SC2412K<br>2SA1037K    |
| Q346           | I = 15           | -         | 2SC2412K                |
| Q347           | G - 15<br>I - 16 | -         | DTC144EK<br>2SA1037K    |
| Q348<br>Q349   | H - 16           |           | 25A1037K                |
| Q355           | B - 3            | -         | 2SC2412K                |
| Q356<br>Q357   | C - 11<br>1 - 6  | _         | DTC144EK<br>2SC2412K    |
| Q358           | H-3              | - 1       | 2SC2412K                |
| Q359<br>Q362   | H-3<br>E-12      | -         | 2SA1037K<br>2SC2412K    |
| Q366           | B - 13           | -         | 2SA1037K                |
| Q367<br>Q368   | 8 - 13<br>8 - 13 | -         | 2SA1037K<br>2SA1037K    |
| Q369           | 8 - 12           | -         | DTA144EK                |
|                |                  |           |                         |

O:TO BE MOUNT

| Ref          | LOCATION         | PVM-1350 | PVM-<br>1351Q/13540 |
|--------------|------------------|----------|---------------------|
| R301         | D-9              | -        | 100                 |
| R303         | E-9              | -        | 100                 |
| R305         | K-13             | -        | •                   |
| R306         | K-13             | _        | 0                   |
| R311         | K-7              | -        | 1.8K                |
| R319         | 1-5              | -        | 6.8K                |
| R332         | J-7<br>J-7       | _        | 100K                |
| R333<br>R337 | J-15             | _        | 100K<br>10K         |
| R338         | J-15             | _        | 58K                 |
| R330         | J-13             | _        | 8.2K                |
| R340         | J-14             | _        | 47K                 |
| R341         | J-15             | _        | 8.2K                |
| R343         | J-14             | -        | 82K                 |
| R344         | J-13             | _        | , 120K              |
| R347         | J - 13           | -        | 4.7K                |
| R346         | 1-12             | -        | 180                 |
| R340         | 3-7              | -        | 82K                 |
| 1351         | J-7              | -        | 3.3K                |
| R352         | 1-15             | -        | 10K                 |
| R353         | 1-13             | -        | 1K                  |
| 1355         | i - 13           | -        | 2.7K                |
| 1356         | J-14             | -        | 39K                 |
| 1357         | J-7              | -        | 1M                  |
| 1358         | 1 - 13           | -        | 1.5K                |
| 350          | 1 - 15           | -        | 4.7K                |
| 380          | 1-13             | -        | 390                 |
| 361          | J-1<br>1-12      | -        | 100                 |
| 362<br>363   | 1-13             | _        | 5.6K<br>470K        |
| 384          | 1-14             | _        | 470K                |
| 367          | 1-15             | _        | 1.2K                |
| 368          | H - 12           | _        | 1K                  |
| 371          | 21 - 16          | _        | 6.8K                |
| 372          | H - 12           | _        | 1.5K                |
| 373          | H-2              | -        | 560                 |
| 174          | Q-2              | -        | 680                 |
| 375          | H - 15           | -        | 1.5K                |
| 379          | H 18             | _        | 6.8K                |
| 380          | 0-2              | -        | 4.710               |
| 381          | H-7              | -        | 39K                 |
| 383          | H - 15           | -        | 3.3K                |
| 384          | H - 15           |          | 10K                 |
| 385          | H - 13           | -        | 4.7K                |
| 388          | G-2              | -        | 560                 |
| 391          | H - 14           | -        | 470K                |
| 395          | G-2              | -        | 580                 |
| 196          | G - 14           | -        | 470K                |
| 301          | G - 13<br>G - 13 | _        | 150                 |
| 302          | G - 13           | -        | 150<br>390          |
|              | Ø − 14<br>Ø − 2  | _        | 390<br>100          |
| 1315<br>1321 | D-3              | _        | 820                 |
| 1321         | D-3              | _        | 820<br>2.2K         |
| 1324         | D-3              | _        | 2.2K<br>3.3K        |
| 325          | G-3              | - ,      | 3.3K                |

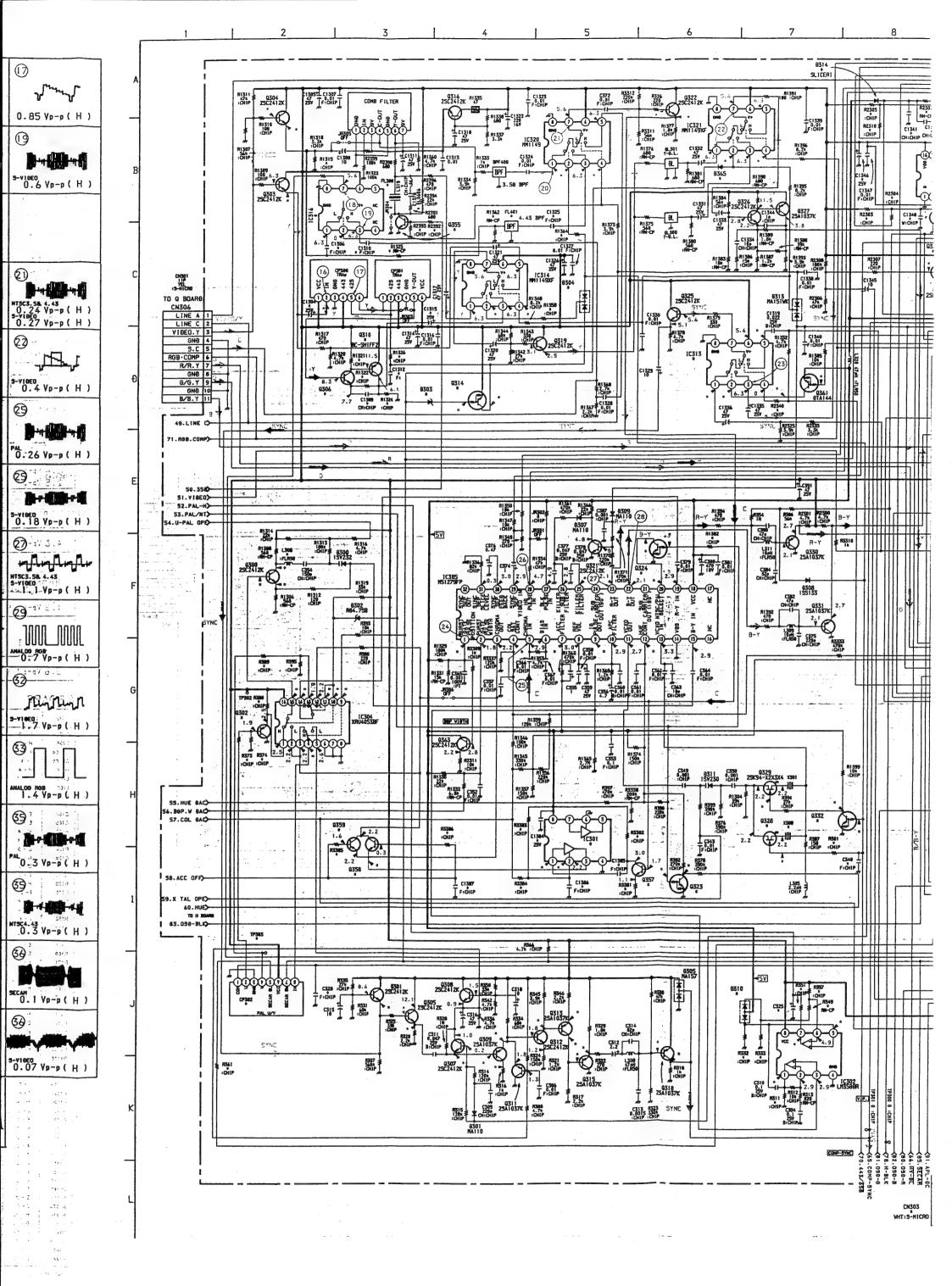
| A BO       | AKD .      | * MAF      | ·            | ,            |              |               |    |                  |            |       |               |              |         |               |
|------------|------------|------------|--------------|--------------|--------------|---------------|----|------------------|------------|-------|---------------|--------------|---------|---------------|
|            | PAL        | SECAM      | N750<br>3.58 | NTSC<br>4.43 | S VIDEO      | ANALOG<br>P38 |    |                  | PAL        | SECAM | NT SC<br>3.58 | MTSC<br>4.43 | S-VICEO | APALOX<br>BOB |
| K301 (0    | 2.8        | 0          | 2.9          | 3.0          | 30           | 2.3           |    | IC326 10         | 5.2        | 6.2   | 62            | 5.2          | 52      | 59            |
| 12         | 20         | 0          | 1.5          | 1.7          | 1 1.7        | 3.5           |    |                  | 62         | 5.2   | 52            | 5.3          | 5,2     | 5.9           |
| (0302 (1)  | 2.9        | 2.9        | 2.9          | 0.3          | 2.9          | 2.9           |    | 1.0              | 6.2        | 62    | 6.2           | 5.2          | 5.2     | 5.9           |
| 3          | 5.3        | 5 i<br>8.4 | 4.5          | 45           | 4.5          | 4.5           |    | (C350 (L         | 6.6        | 6.5   | 54            | 5.3          | 5       | 59            |
| IC303 1    | 2.3        | 2.6        | 22           | 2.2          | 26           | 2.8           |    | 12               | 62         | 62    | 62            | 5.3          | 60      | 5.4           |
| 19         | 01         | 42         | 0.6          | 0.6          | 06           | 01            |    | 0300 B           | 6.2        | 2.5   | 6.2<br>2.2    | 6.3          | 2.2     | 6.4           |
| 15         | 39         | 2.8        | 3.1          | 3.1          | 3.3          | 39            |    | C                | 10.2       | 10.2  | 10.4          | 10.5         | 10.4    | 10.5          |
| 10304 (d)  | 22         | 2.5        | 2.2          | 2.2          | 2.2          | 2.2           |    | = =              | 1.9        | 1.9   | 1.6           | 1.5          | 1.5     | 1.6           |
| T          | 34         | 01         | 94           | , 94         | 3.1          | 9.4           |    | Q301 €           | 9.6        | 85    | 82            | 8.3          | 95      | 98            |
| 10         | 7.3        | 7.3        | 2.5          | 2.5          | 2.6          | 2.5           |    | Q303 €           | 5.7        | 5.7   | 5.7           | 5.7          | 5.5     | 5.7           |
| 11         | 7.3        | 7.3        | 2.5          | 2.6<br>2.2   | 2.5          | 2.5           |    | Q304 B           | 63         | 6.3   | 63            | 54           | 6.2     | 6.3           |
| - 44       | 1.9        | 1.3        | 2.2          |              | 2.2          | 22            |    | - 5              | 57         | 5.7   | 5.7           | 5.7          | 5.5     | 5.7           |
| 15         | 2.5<br>2.8 | 2.5        | 2.2          | 2.2          | 2.3          | 2.2           |    | 0305 8           | 8.6        | 85    | 8.2           | €3           | 8.5     | 9.6           |
| 10305 m    | 2.8        | 2.9        | 2.8          | 0            | 2.8          | 29            |    | =                | 79         | 7.9   | 7.5           | 7,7          | 79      | -91           |
| (41        | 2.5        | 1.1        | 25           | 41           | 2.4          | 1.3           |    | 0307 4           | 1.4        | 1.4   | 1,1           | 1.2          | 1,4     | 2.7           |
| (f)<br>(h) | 04         | 02         | 5            | 0            | 4.2          | 45            |    | Q309 B           | 1.4        | 14    | 1.1           | 1.2          | 1 14    | 2.5           |
| 12         | 2.6        | 26         | 2.5          | 2.4          | 2.5          | 27            |    | <u></u>          | 0.1        | 0.1   | 0.2           | 0.1          | 0.1     | 0             |
| 37         | 0          | 0          | 08           | 0.8          | 0.9          | 0.9           |    | 0312 C           | 8.2        | 82    | 1.7<br>8.5    | 8.3          | 0       | 9.1           |
| **         | 2.1        | 2.7        | 1.9          | 1.9          | 1.9          | 2.7           |    | 03:3 3           | 8.2        | 8.2   | 86            | 8.3          | 9.3     | 8.1           |
| rC306 (t)  | 8.1        | 8.1        | 8.1          | 8.1          | 8.1          | 0             |    | E                | 8.8        | 8.8   | 9.3           | 9.0          | 8.9     | 8.7           |
| (3)        | 0          | 0          | 0            | 01           | 0.1          | 4.4           |    | 0314 8           | 11.9       | 6.4   | 11.9          | 11.9         | 119     | 11.9          |
| IC309 ①    | 36         | 0          | 3.6          | 3.6          | 3.6          | 3.6           |    | С                | 0          | 11.9  | 0             | 0            | 0       | 0             |
| (4)        | 0          | 0          | 0            | 0            | 0            | 44            |    | Q315 B           | 3.3        | 3.2   | 2.9           | 3.1          | 3.2     | 3.3           |
| 1C310 (i)  | 52         | 6.2        | 6.2          | 6.2          | 6.2          | 5.9           |    | ε                | 3.9        | 3.9   | 3.5           | 3.8          | 3.8     | 4.0           |
| (1)        | 6.3        | 6.3        | 6.2          | 6.2          | 6.2          | 5.9           |    | 0318 9           | 12.1       | 12.0  | 11.7          | 11.9         | 12,1    | 12.1          |
| 13         | 5.9        | 5.9        | 6.0          | 6.3          | 5.9          | 5.9           |    | C                | 1.0        | 1.0   | 1.2           | 1.0          | 1.0     | 0.9           |
| IC311 ()   | 0          | 6.2        | 6.2          | 6.2          | 6.2          | 62            |    | Q322 B           | 2.4        | 2.4   | 2.3           | 2.3          | 5.6     | 2.4           |
| (3)        | 6.2        | 6.2        | 6.2          | 6.2          | 6.2          | 5.9           |    | Ε                | 1.8        | 1.8   | 1.8           | 1.8          | 5.0     | 1.8           |
| <u> </u>   | 6.2        | 6.3        | 6.3          | 6.2          | 6.2          | 5.9           |    | O323 B           | 5.0        | 5.0   | 0             | 0            | 0       | 3.6           |
| 6          | 3.3        | 3.3        | 2.9          | 2.9          | 2.9          | 0             |    | O324 8           | 0          | 4.2   | 3.5<br>0      | 3.5          | 3.5     | 0             |
| 10         | 5.9        | 5.9<br>0.4 | 5.9<br>0.4   | 6.2          | 5.8          | 5.9<br>0.7    |    |                  | 4.1        | 0     | 0.8           | 0.8          | 0.8     | 0.9           |
| IC312 (3)  | 3.6        | 0.4        | 3.6          | 3.6          | 0.5<br>3.6   | 3.6           |    | O328 B           | 2.2        | 2.2   | 2.2           | 2.2          | 2.0     | 1.3           |
| (I)        | 0          | 0          | 0            | 12.0         | 0.1          | 45            |    | . C              | 2.8        | 2.8   | 2.8           | 2.8          | 0       | 0             |
| IC313 ①    | 0          | 6.3        | 0            | 6.3          | 6.3          | 6.3           |    | Q329 D           | 2.1        | 2.1   | 2.2           | 2.4          | 1 6     | 2.2           |
| 1C314 ②    | 0          | 3.0        | 7.6          | 0            | 3.0          | 0             |    | G                | 0          | 0     | 1.6           | 0            | 2.9     | 2.8           |
| <u> </u>   | 0          | 0          | 0            | 0            | 29           | 0.1           |    | 0332 B           | 4.9        | 5.0   | 0             | 4.9          | 0       | 10            |
| IC315 ①    | 0.4        | 0.4        | 0.4          | 0.4          | 0.4          | 0.6           |    | С                | 0          | 0     | 4.4           | 0            | 4.3     | 4.4           |
| <b>(a)</b> | 0.6        | 0          | 0.6          | 0.6          | 0.6          | 0.6           |    | 0333 B           | 1.7        | 1,7   | 1.9           | 1.8          | 1.7     | 11.7          |
| (g)        | 9.4        | 9.3 -      | 9.3          | 9.2          | 9.3 -        | .9.4          |    | . Е              | 1.5        | 15    | 1.7           | 1.5          | . 15    | 1.4           |
| 0          | 2.5        | 2.5        | 2.5          | 2.5          | 2.5          | 7.2           |    | 0336 G           | 4,7        | 4.6   | 4.6           | 4.7          | 42      | 4.8           |
| 19         | 0.4        | 0.4        | 0.4          | 0.4          | 0.4          | 0.6           |    | 0                | 4.3        | 4.3   | 4.3           | 4.3          | 4.5     | 4.3           |
| 49         | 04         | 0.4        | 0.4          | 0.4          | 0.4          | 0.6           |    | O339 B           | 12.3       | 12.5  | 12.5          | 12.4         | 12.5    | 12.3          |
| 1C317 @    | 2.0        | 0          | 2.0          | 2.1          | 2.0          | 12.0          |    | O347 B           | 9.4        | 0.1   | 9.4           | 9.4          | 9.4     | 9.4           |
| 9          | 12.0       | 10.6       | 12.0         | 12.0         | 12.0         | 12.0          |    | 0349 B           | 2.8        | 2.7   | 2.7           | 2.7          | 2.2     | 2.8           |
| 13         | 9.4        | 9.4        | 9.4          | 9.4          | 9.1          | 94            |    | £                | 3.4        | 3.3   | 3.4           | 3.4          | 2.8     | 3.4           |
| IC318 (5)  | 11.5       | 11.5       | 0            | 11.4         | 11.4         | 11,4          |    | Q354 B           | 12.0       | 0.6   | 0             | 0            | 0       | 10            |
| IC320 ①    | 6.3        | 6.3        | 6.3          | 6.3          | 6.3          | 0             |    | E                | 12.0       | 0.4   | 0             | 0            | 0       | - 0.2         |
| 0          | 3.0        | 0          | 0            | 3.1          | Q            | 0             |    | Q358 E           | 2.2        | 2.2   | 0 :           | 2.2          | 2.2     | 2.2           |
| <b>(3)</b> | 0          | 0          | 0            | 0            | 3.3          | 0             |    | 0360 1           | 6.2        | 6.2   | 6.2           | 6.3          | 6.1     | 6.4           |
| IC321 (D)  | 0          | 0.1        | 0.1          | 0            | 2.9          | 0             | ú  | 3                | 6.2        | 6.2   | 6.2           | 6.3          | 6.0     | 6.4           |
| •          | 0          | 0          | 0            | 0            | 0.1          | 2.7           | 1  | 5                | 1.3        | 4.7   | 2.2           | 4.1          | 5.3     | 3.8           |
| IC322 🕲    | 5.8        | 5.9        | 6.0          | 6.3          | 5.9          | 5.9           |    | Q361 B           | 4.9        | 4.9   | 5.0           | 5.0          | 5.0     | 0.8           |
| IC323 🔇    | 6.2        | 6.3        | 6.2          | 6.2          | 6.2          | 5.9           |    | C                | 0.1        | 0     | 0             | 0            | 0.1     | 14.9          |
| 0          | 0          | 5.6        | 5.6          | 5.6          | 5.6          | 5.6           | À  | Q362 C           | 9.0        | 9.0   | 9.0           | 9.5          | 9.2     | 8.5           |
| 1C324 (\$) | 6.2        | 6.2        | 6.2          | 6.2          | 6.2          | 5.9           | ٠. | 0364 C<br>0365 B | 3.3<br>0.4 | 3.3   | 2.9<br>0.3    | 0.3          | 0.4     | 2.9<br>0.4    |
| 1C326 ①    | 5.9        | 5.9        | 6.0          | 6.3          | 5.9          | 5.9           |    |                  |            |       | 0.8           |              |         |               |
| 2          | 5.9        | 5.9        | 5.9          | 6.2<br>6.2   | . 5.8<br>5.8 | 5.9<br>5.9    |    | Q369 B<br>Q372 B | 0.8        | 0.9   | 0.8           | 0.8          | 0.9     | 4.9           |
| 9          | 5.9        | 5.9        | 5.9          |              | 2.1          | 2.1           |    | C C              | 11.7       | 11.7  | 11.8          | 11.8         | 11.7    | 0             |
| 5          | 1.7        | 1.9        | 2.3          | 1.6          | 2.3          | 4.6           |    | Q374 B           | 10.4       | 10.3  | 10.1          | 10.3         | 10.7    | 6.4           |
| 6          | 0          | -0.1       | 10.8         | 0            | - 0.1        | 0             |    | C C              | 0          | 0.3   | 0             | 0.3          | 6.2     | 6.7           |
| (8)        | 6.3        | 6.3        | 6.3          | 6.3          | 6.2          | 5.9           |    | Ε Ε              | 6.4        | 6.4   | 6.3           | 6.3          | 6.1     | 6.7           |
| 9          | 6.3        | 6.3        | 6.3          | 6.3          | 6.2          | 5.9           |    | Q375 B           | 10.7       | 10.8  | 10.7          | 10.7         | 10.7    | 5.9           |
| 19         | 6.3        | 6.3        | 5.2          | 6.2          | 6.2          | 5.9           |    | C                | 0          | 0     | 0             | 0            | 6.3     | 6.4           |
|            |            |            |              |              |              | 4.0           |    | Ε                | 6.2        | 6.2   | 6.2           | 6.2          | 6.0     | 6.4           |

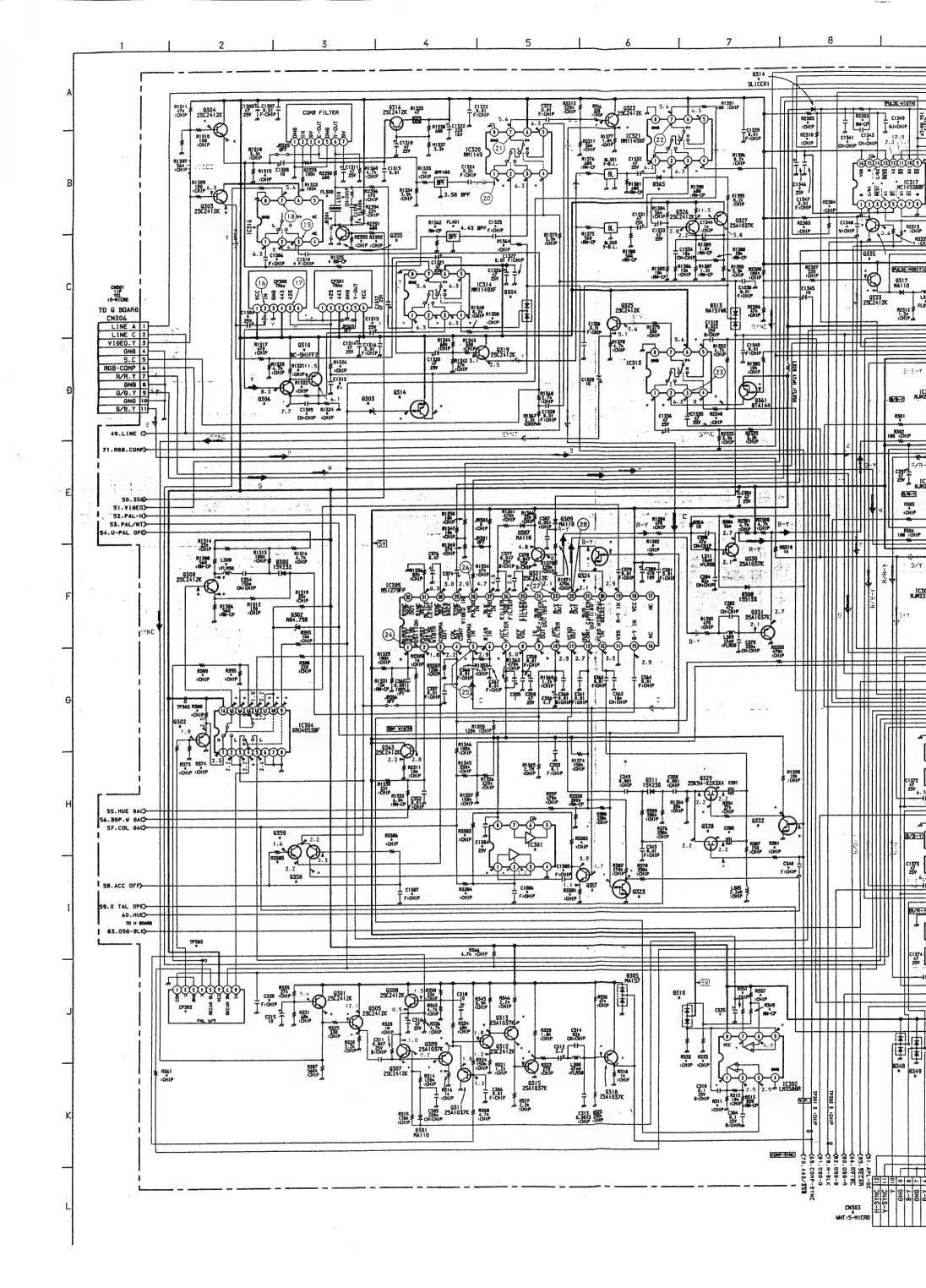
| Ref            | LOCATION         | PVM-1350              | PVM-<br>1351Q/1354Q |
|----------------|------------------|-----------------------|---------------------|
| R1326          | D-3              | -                     | 10K                 |
| R1327          | B - 12           |                       | 10K                 |
| R1356          | C-5              | - '                   | 8.2K                |
| R1362          | B-4              | -                     | 11K                 |
| R1364<br>R1382 | 8 - 5<br>E - 6   |                       | 10K                 |
| R1398          | A-8              | 0                     | -                   |
| R2302          | A-8              |                       | 6.8K                |
| R2303          | B-8              | -                     | 88K                 |
| R2304          | B-6              | -                     | 220K                |
| R2305          | A-8              | -                     | 33K                 |
| R2310<br>R2313 | A - 8<br>B - 9   | _                     | 82K<br>1K           |
| R2314          | C-9              | _                     | 560                 |
| R2318          | C - 10           | 0                     | 6.8K                |
| R2319          | C - 10           | _                     | 68K                 |
| R2321          | C - 10           | -                     | 2.2K                |
| R2322          | C - 10           | -                     | 4.7K                |
| R2324<br>R2333 | C - 10           | -                     | 10K                 |
| R2333          | C - 10,<br>D - 7 |                       | 47K                 |
| R2343          | G-11             | -                     | 22K                 |
| R2361          | G - 11           | -                     | 120K                |
| R2363          | D - 12           | 0                     | 4.7K                |
| R2365          | B - 11           | -                     | 33K                 |
| R2368          | E - 13           | -                     | 4.7K                |
| R2385          | H - 9            | -                     | 10K                 |
| R2388<br>R2387 | 7 – 8<br>H – 9   | ]                     | 10K<br>10K          |
| R2388          | H - 11           | -                     | 1010                |
| R2392          | 8-3              | -                     | 10K                 |
| R2393          | 8 - 3            | -                     | 10K                 |
| R3305          | E - 10           | -                     | 3.3K                |
| R3306          | F - 10           | -                     | 3.9K                |
| R3306<br>R3314 | C - 14<br>C - 12 | 0                     | 10K                 |
| R3315          | G - 12           | 4.7K                  | -                   |
| R3316          | G - 7            | 4.7K                  | -                   |
| R3318          | G-7              | 4.7K                  | - 1                 |
| R3319          | G - 7            | 4.7K                  | -                   |
| R3320          | A ~ 12           | -                     | 33K                 |
| R3321<br>R3322 | G-7<br>G-7       | 12K<br>10K            |                     |
| R3334          | E - 12           | -                     | 10K                 |
| R3335          | B - 9            | -                     | 470K                |
| R3339          | K - 12           | -                     | 68K                 |
| R3340          | K 13             | -                     | 120K                |
| R3344          | 1 - 13           | -                     | 22K                 |
| R3345<br>R3355 | 1 - 13<br>A - 12 | -                     | 220<br>47K          |
| R3358          | B - 13           | -<br>-<br>-<br>-<br>- | 1.2K                |
| A3357          | B - 13           | -                     | 1.2K                |
| R3358          | 8 - 13           | -                     | 1.2K                |
| R3359          | A - 12           | -                     | 22K                 |
| R3360          | B - 12           | -                     | 10K                 |
| R3361<br>R3362 | 8 - 12<br>8 - 13 | -                     | 47K                 |
| R3362<br>R3363 | 8 - 13<br>8 - 13 | -                     | 1K<br>1K            |
| R3364          | G-11             | _                     | 1K<br>10K           |
| R3381          | 1-6              | _                     | 470                 |
| R3382          | H = 6            |                       | 820                 |
| R3383          | H-4              |                       | 6.8K                |
| R3384          | 1 – 4            | -                     | 3.3K                |
| R3385          | H-2              | -                     | 2.2K                |
| R3386<br>T300  | H - 3<br>I - 12  | -                     | 2.2K<br>COIL        |
| - 300          | 1 - 12           |                       | - COIL              |

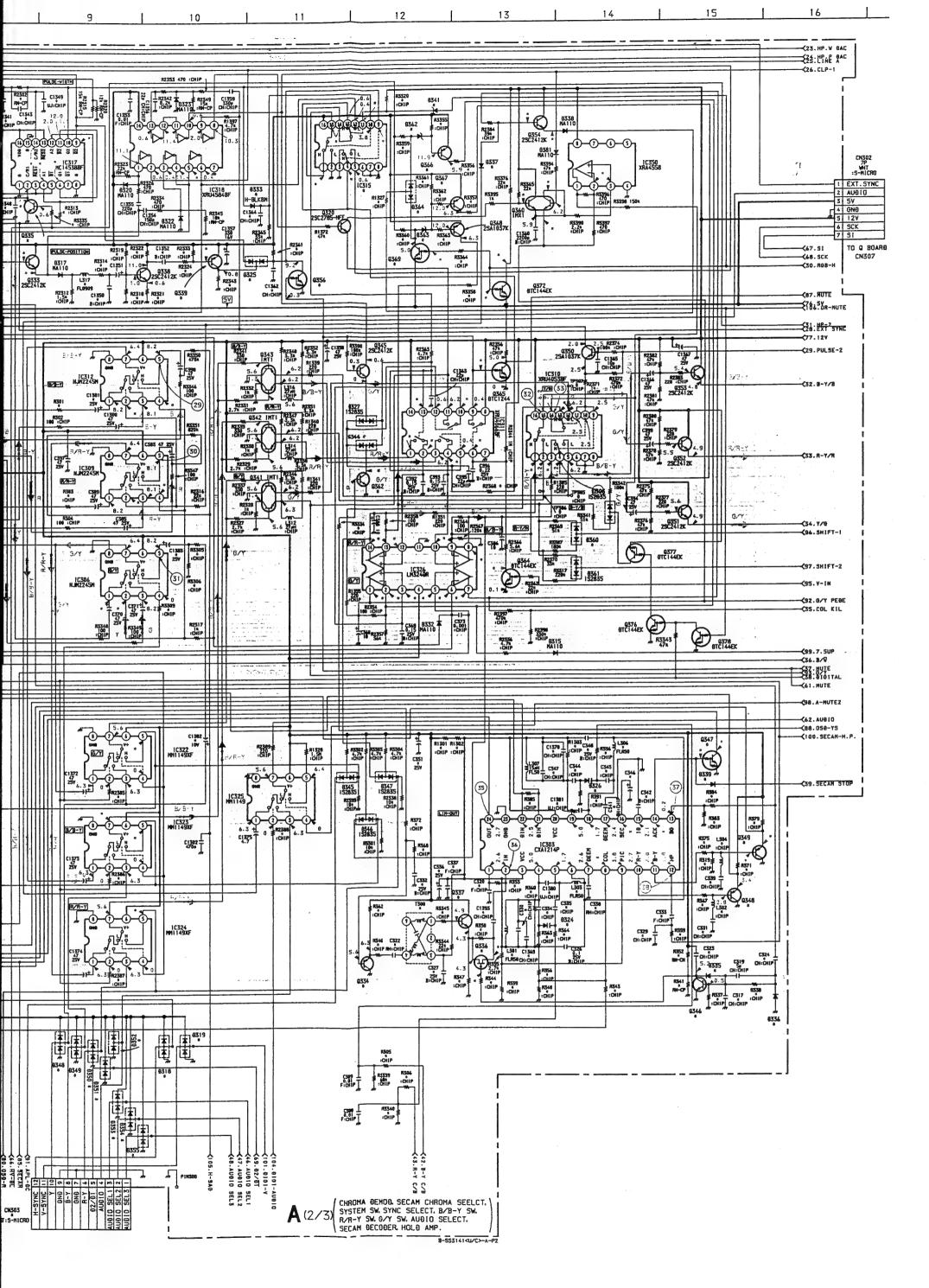
| A300      | 丄   |
|-----------|-----|
| O:TO BE M |     |
| -: NOT M  | OUN |

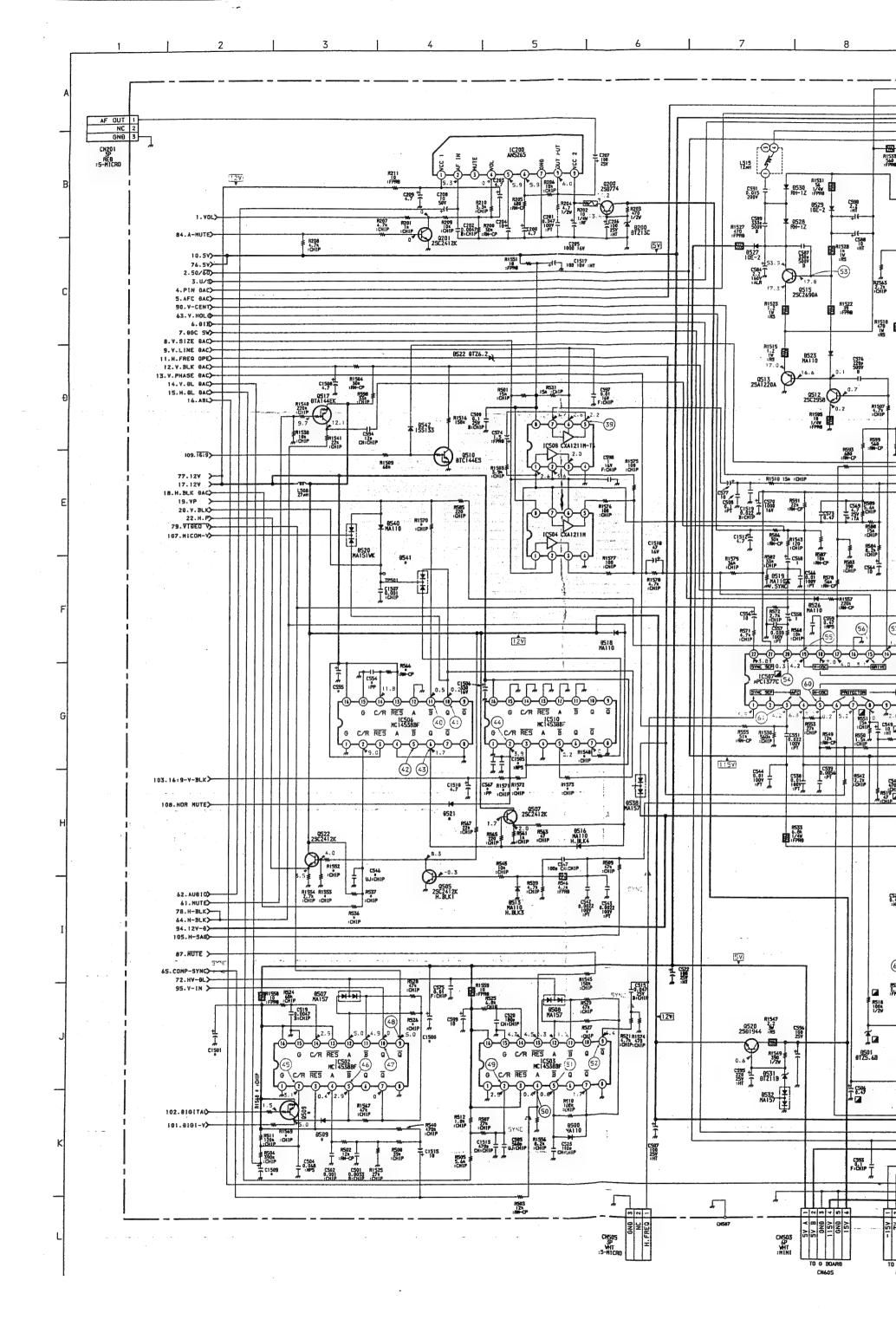
| _   | 5        | C      | 0    |    | 0         | 0            | 0          | $\pm$  |
|-----|----------|--------|------|----|-----------|--------------|------------|--------|
| 5.  |          | 3      | 6.4  |    | 6.4       | 6.3          | 6.3        | 7      |
| 5.  | 9        | Q375 B | 10.7 | ī  | 10.8      | 10.7         | 10.7       |        |
| 5.  | 9        | С      | 0    |    | 0         | 0            | 0          |        |
|     |          | Ε      | 6.2  |    | 6.2       | 6.2          | 6.2        | $\Box$ |
|     |          |        |      |    | - 65      |              |            | 14     |
|     | 4.4.5    |        |      |    |           |              |            |        |
|     |          |        |      | Γ. |           | PVM-         |            | 1      |
|     | Ref      | LOCA   | TION | 1  | PVM-1350  | 13510/       | 13540      | 1      |
|     | C300     |        |      | _  |           | 1            |            | 1      |
|     | •        | к-     |      |    |           |              | .01        |        |
|     | C300     | к-     |      |    | -         |              | 01         | l      |
|     | C310     | · K-   |      |    | -         |              | /25V       | 1      |
|     | C317     | 3-     |      |    | -         |              | 5P -       | l      |
|     | C319     | 1-1    |      |    |           | 1            | IP .       | l      |
|     | C320     | 1-1    | _    |    | -         |              | 01         |        |
|     | C322     | 1-1    |      |    | -         |              | OP .       |        |
|     | C323     | 1-1    |      |    | _         | 1 .          | 5 <b>P</b> |        |
|     | C324     | 1-1    |      |    | -         |              | SP.        |        |
|     | C325     | 1-     |      |    | -         | 1            | 0          | ŀ      |
|     | C327     | !-!    |      |    |           |              | 25V        |        |
|     | C328     | J-     |      |    | -         | 1            | 01.        |        |
|     | C329     | 1-1    |      |    | -         |              | OP         |        |
|     | C330     | 1-1    |      |    | -         |              | rP         |        |
|     | C331     | 1-1    |      |    | -         |              | SP         |        |
|     | C332     | 1-1    |      |    | -         |              | .1         |        |
|     | C333     | 1-1    |      |    | -         | 0.           |            |        |
|     | C334     | 1-1    |      |    | -         | 0.0          |            |        |
| 1   | C335     | !-!    |      |    | -         | 0.0          |            |        |
| . 1 | C336     | 1-1    |      |    | -         | 47/          |            | 1      |
| . [ | C337     | 1-1    |      |    | -         | 0.           |            |        |
|     | C336     | 1-1    |      |    | -         |              | oP ∣       |        |
| - 1 | C339     | H -    |      |    | -         | 15           | IP         |        |
| - 1 | C340     | 1-0    |      |    | -         | 0.0          |            | ĺ      |
| - 1 | C341     | н-     | - 1  |    | -         | 12           |            |        |
| - 1 | C342     | H-     |      |    |           | 0.00         |            |        |
| - 1 | C344     | H-     |      |    | -         | 0.0          |            |        |
|     | C345     | н-     | - 1  |    | -         | 0.0          |            |        |
| - 1 | C346     | H-     | - 1  |    | -         | 1 1          | - 1        |        |
| - [ | C347     | н-     |      |    | -         | 47           |            |        |
|     | C348     | G-     |      |    | -         | 0.1/         |            |        |
| - 1 | C351     | н-     |      |    | -         | 47 /         |            |        |
| - 1 | C357     | G-     |      |    | -         | 0.0          |            |        |
|     | C380     | E-1    |      |    | -         | 47 /         |            |        |
| - 1 | C1301    | D-1    |      |    | -         | 47 /         |            |        |
| - [ | C1303    | G-     |      | 9  | ).1 / 25V | -            | - 1        |        |
| - 1 | C1304    | C-:    | - 1  |    | -         | 47 /         |            |        |
| - 1 | C1306    | · C-   | - 1  |    | -         | 0.0          |            |        |
| - 1 | C1300    | D-:    |      |    | -         | 186          |            |        |
|     | C1310    | C-3    |      |    | _         | 0.0          |            |        |
| - 1 | C1312    | C-1    |      |    | -         | 0.0          |            |        |
| H   | C1315    | 8-5    |      |    | _         | 47/          |            |        |
|     | C1325    | A-0    |      |    | -         | 0.0          |            |        |
|     | C1341    | A-8    | - 1  |    | -         | 0.0          |            |        |
| - 1 | C1348    | B-8    | - 1  |    |           | 68<br>47 / : |            |        |
| ŀ   | C1346    | 8-     | - 1  |    | _         | 1            |            |        |
| - [ | C1347    | B-8    |      |    | -         | 270          |            |        |
|     | C1348    | A - 8  |      |    | _         | 100          |            |        |
| ŀ   | C1350    | C-0    |      |    | _         | 0.0          |            |        |
|     | C1351    | C-9    | - 1  |    | _         | 1            | ٠ ا        |        |
|     | C1352    | C-1    |      |    | _         | 0.01         | 15         |        |
|     | C1362    | G-1    |      |    | _         | 821          |            |        |
| - [ | C1364    | 8-1    |      |    | _         | 470          | - 1        |        |
| ı   | C1369    | 1 - 13 |      |    | -         | 271          |            |        |
| ł   | C1370    | G-1    | 4    |    | -         | 271          | - 1        |        |
|     | C1378    | B - 4  |      |    | -         | 151          | P          |        |
| - [ | C1380    | 1 - 13 |      |    | -         | 221          |            |        |
|     | C1381    | H-1    | 3    |    | -         | 221          |            |        |
|     | C1382    | G-1    | 0    |    | -         | 100/         | 100        |        |
|     | C1383    | F - 10 |      |    | -         | 47/2         | SV         |        |
|     | C1384    | H-4    |      |    | -         | 0.1/2        | 25V        |        |
| -   | C1385    | 1-5    |      |    | _         | 0.0          | - 1        |        |
| -1  | C1386    | 1-5    |      |    | -         | 0.0          | ı [        |        |
| -   | C1387    | 1-4    |      |    | -         | 0.0          |            |        |
|     | C1393    | J 13   |      |    | -         | 100          | P          |        |
|     | CN303    | L-8    |      |    |           | 125          | ·          |        |
| 1   | CP300    | C-5    | - 1  |    | -         | 0            | . [        |        |
| ĺ   | CP301    | C-3    |      |    | -         | 0            |            |        |
|     | CP302    | 7-5    |      |    | -         | 0            | - 1        |        |
|     | CP303    | A - 3  |      |    | 0         | -            |            |        |
|     | -TO 86 N | *****  |      | _  |           |              |            |        |

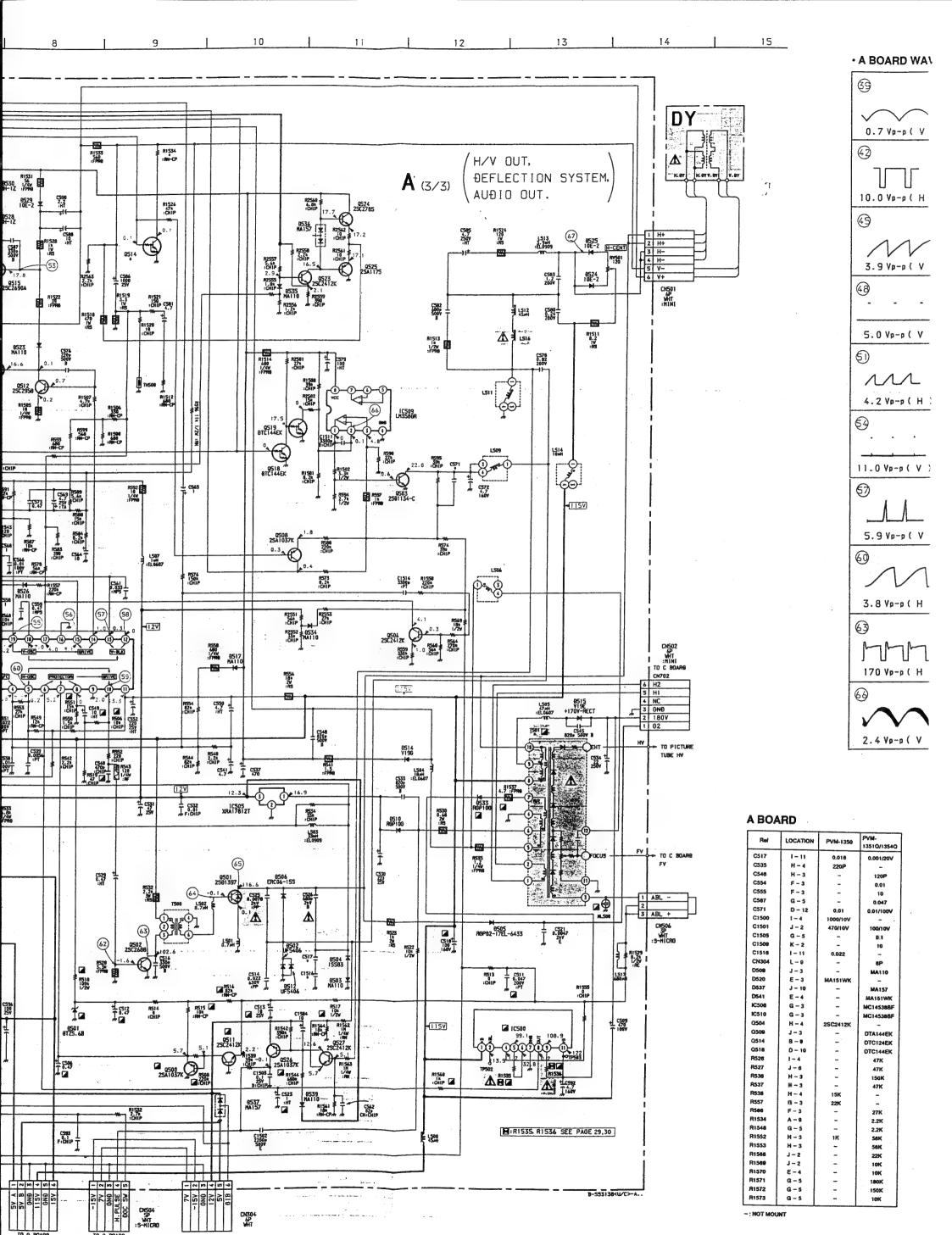
| · A BOARD WAVE   | FORMS  |  |
|--|--|--|
| 16   | 16   | (7)  |
|  | Attantan   | Romany   |
| 1.0 Vp-p(H)  | 0.94 Vp-p ( H )  | 0.85 Vp-p (  |
|  |  | (19  |
| 3-VIBEO<br>0.94 Vp-p ( H )   | 3-V (0E0   | 5-V10E0  |
| 0.94 VP-P(H)   | 0.6 Vp-p(H)  | 0.6 Vp-p (   |
|  | 20   |  |
| PAL 0.2 Vp-p(H)  | NTSC3.58<br>0.24 Vp-p ( H )<br>NTSC4.43<br>0.12 Vp-p ( H )   |  |
| 2)   | (1) (A)  | <b>(1)</b>   |
| 1-11-1   |  |  |
| PAL<br>0.27 Vp-p(H)  | SECAM 0.17 Vp-p ( H )  | NTSC3.58.4.43<br>0.24 Vp-p (<br>5-VIDEO<br>0.27 Vp-p (   |
| 22   | 22   | 23   |
| PAL 0 . 4 Vp-p ( H )   | MTSC3,58   | 12   |
| 0.4 Vp-p ( H )<br>SECAM<br>0.36 Vp-p ( H )   | 0.37 Vp-p ( H )<br>NTSC4.43<br>4.0 Vp-p ( H )  | 5-VIBEO<br>0.4 Vp-p (  |
| 3  | <b>3</b>   | <b>②</b>   |
| ANALOG RGB   | V V  | PAL  |
| ANALOG RGB<br>1.9 Vp-p ( H )   | 1.0 Vp-p ( H )   | 0.26 Vp-p(   |
|  | 29   | <b>3</b>   |
| SECAN O. 2 Vp-p ( H )  | NTSC3.58. 4.48<br>0.23 Vp-p ( H )  | 5-VIDED 0.18 Vp-p (  |
| 23   | <b>Ø</b>   | Ø-1/3.   |
|  | mulmulu  | man  |
| 5.4 Vp-p ( H )   | РАL<br>1.0 Vp-д ( Н )  | NTSC3.58. 4.43<br>S-V10E0 17 17<br>Amala JVp-p ( 1   |
|  |  |  |
| 28   | 28   | ·@-17 E  |
| My my My   | MISCY 12   |  |
| 28<br>PAL 0. 8 Vp-p ( H )<br>0.85 Vp-p ( H )   | HTSC-,43<br>0.73 Vp-p ( H )<br>5-V10E0<br>0.9 Vp-p ( H )   | AMALOG RGB<br>0.7 Vp-p()   |
| PAL O. 8 Vp-p ( H )<br>0.85 Vp-p ( H )   | MTSC4.43<br>Q. 733 Vp-p ( H )  |  |
| PALO. 8 Vp-p ( H ) 0.85 Vp-p ( H ) 30  | M1564,433 Vp-p ( H ) 9-V1060 0.9 Vp-p ( H )  | AMALOO 708 p-p()   |
| PAL O. 8 Vp-p ( H ) 0.85 Vp-p ( H ) 30 AMALOO POP 0.7 Vp-p ( H )   | M15C4.73 Vp-p ( H ) 9-Vieto 0.9 Vp-p ( H )  AMALOB ROB 0.7 Vp-p ( H-)  | AMALOO POR<br>0:7 Vp-p ()  |
| PAL O. 8 Vp-p ( H ) 0.85 Vp-p ( H ) 30  AMALOO POP 0.7 Vp-p ( H )  | MTSC4.43<br>0.73 Vp-p ( H )<br>9-Vieco<br>0.9 Vp-p ( H ) -<br>(3)<br>AMALDO POS<br>0.7 Vp-p ( H -)   | AMALOO POP-P ( )   |
| PALO: 8 Vp-p ( H ) 0:85 Vp-p ( H ) 30  AMALO: 7 Vp-p ( H ) 32  1111111111111111111111111111111111  | M15C4.43 Vp-p ( H ) 9-V10C0 0.9 Vp-p ( H )  ANALOS ROS 0.7 Vp-p (-H-)  33  | AMALOO ROB   |
| PAL O. 8 Vp-p ( H ) 0.85 Vp-p ( H ) 30  AMALOO ROB 0.7 Vp-p ( H ) 32  AMALOO ROB 1.4 Vp-p ( H )  | MTSC4.73 Vp-p ( H ) 9-VIDEO 0.9 Vp-p ( H )  O.7-Vp-p ( H )  S3  S-VIDEO 1.3-Vp-p ( H )   | AMALOO POB - 7 Vp - p ( )  33 - 7 Vp - p ( )  AMALOO POB - 27 ( )  AMALOO POB - 27 ( )   |
| PALO. 8 Vp-p ( H ) 0.85 Vp-p ( H ) 30  AMALOO RGB 0.7 Vp-p ( H ) 32  AMALOO RGB 1.4 Vp-p ( H )   | M15C4.43 Vp-p ( H ) 9-V10C0 0.9 Vp-p ( H )  ANALOS ROS 0.7 Vp-p (-H-)  33  | AMALOO ROB 32 ( )  |
| PAL O. 8 Vp-p ( H ) 0.85 Vp-p ( H ) 30  AMALOO ROB 0.7 Vp-p ( H ) 32  AMALOO ROB 1.4 Vp-p ( H )  | MTSC4.73 Vp-p ( H ) 9-VIDEO 0.9 Vp-p ( H )  O.7-Vp-p ( H )  S3  S-VIDEO 1.3-Vp-p ( H )   | AMALOO POB - 7 Vp - p ( )  33 - 7 Vp - p ( )  AMALOO POB - 27 ( )  AMALOO POB - 27 ( )   |
| AMALOO PGB PP (H)  32  AMALOO RGB PP (H)  32  AMALOO RGB PP (H)  32  AMALOO RGB PP (H)  33  AMALOO RGB PP (H)  34  | M15C4.43 Vp-p ( H ) 9-V10C0 0.9 Vp-p ( H )  ANALOS ROS  S-V10C0  33  3-V10C0  ANALOS ROS  ANALOS ROS  ANALOS ROS   | AMALOO ROB 3   |
| AMALOU PRED P ( H )  30  AMALOU PRED P ( H )  32  AMALOU PRED P ( H )  32  AMALOU PRED P ( H )  34  3-VIOCO TO VP-P ( H )  35  3-VIOCO TO VP-P ( H )   | MISCA,43 Vp-p ( H ) 9-VIDEO 0.9 Vp-p ( H )  31  AMALOD ROB 3-VIDEO 1.3.Vp-p ( H )  32  AMALOD ROB 1.4 Vp-p ( H )  33  AMALOD ROB 1.4 Vp-p ( H )  | AMALOO ROU 33 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )  |
| AMALOO ROB<br>1.4 Vp-p ( H )  30  AMALOO ROB<br>1.4 Vp-p ( H )  30  SECAM 1.3 Vp-p ( H )  35  SECAM 1.3 Vp-p ( H )   | MISCL.43 Vp-p ( H ) 9-VIPED 0.73 Vp-p ( H )  3)  AMALOO ROD 1.5 Vp-p ( H )  33  AMALOO ROD 1.4 Vp-p ( H )  35  MISCL.5.5 Vp-p ( H )  35  MISCL.5.5 Vp-p ( H )  | AMALOO ROB 1.4 Vp-p ( )  |
| PALO. 8 VP-P ( H )  0.85 VP-P ( H )  30  AMALOO POBP  ANALOO POBP  1.4 VP-P ( H )  34  39  | MISCA,43 Vp-p ( H ) 9-VIDEO 0.9 Vp-p ( H )  31  AMALOD ROB 3-VIDEO 1.3.Vp-p ( H )  32  AMALOD ROB 1.4 Vp-p ( H )  33  AMALOD ROB 1.4 Vp-p ( H )  | AMALOO POP P ( )  33  AMALOO POP P ( )  34  AMALOO POP P ( )  35  AMALOO POP P ( )  36  AMALOO POP P ( )  36  AMALOO POP P ( )  37  AMALOO POP P ( )  38  AMALOO POP P ( )  39  AMALOO POP P ( )  30  AMALOO POP P ( )  AMALOO |
| PALO. 8 VP-P ( H )  O. 85 VP-P ( H )  O. 85 VP-P ( H )  O. 85 VP-P ( H )  AMALOO ROUP-P ( H )  O. 7 VP-P ( H )  O. 7 VP-P ( H )  SP  SECAN I VP-P ( H )  SS  SECAN I VP-P ( H )  SS  SECAN I VP-P ( H )  | MTSC2.43 Vp-p ( H )  3-Vieto Vp-p ( H )  31  AMALOO ROD  3-Vieto Vp-p ( H )  33  AMALOO ROD  3-Vieto Vp-p ( H )  34  AMALOO ROD  AMALOO RO | AMALOO POO PO ( )  33  AMALOO POO PO ( )  35  AMALOO POO POO POO POO PO ( )  35  AMALOO POO POO POO PO ( )  45  AMALOO POO POO POO POO POO PO ( )  45  AMALOO POO POO POO PO ( )  45  AMALOO POO POO POO POO POO POO POO POO POO   |
| PALO. 8 Vp-p ( H )  O. 85 Vp-p ( H )  O. 85 Vp-p ( H )  O. 7 Vp-p ( H )  AMALOO ROB 1.4 Vp-p ( H )  O. 7 Vp-p ( H )  Solution 1.3 Vp-p ( H )  Solution 3  Secan ( ) 1 Vp-p ( H )  Solution 3  Secan ( ) 1 Vp-p ( H )  Solution 3  Secan ( ) 1 Vp-p ( H )  Solution 3  Secan ( ) 1 Vp-p ( H ) | MISCL 43 VP-P ( H ) 9-VIECO VP-P ( H )  31  AMALOO ROD L.3.VP-P ( H )  33  AMALOO ROD NISCL 58  PAL O. 3 VP-P ( H )  | AMALOO POO PO ( )  33  AMALOO POO PO ( )  33  AMALOO POO PO ( )  33  AMALOO POO PO ( )  35  AMALOO POO PO ( )  36  AMALOO POO PO ( )  37  AMALOO POO PO ( )  45  AMALOO POO POO POO PO ( )  45  AMALOO POO POO POO PO |
| PALO. 8 VP-P ( H )  O. 85 VP-P ( H )  O. 85 VP-P ( H )  O. 85 VP-P ( H )  AMALOO ROUP-P ( H )  O. 7 VP-P ( H )  O. 7 VP-P ( H )  SP  SECAN I VP-P ( H )  SS  SECAN I VP-P ( H )  SS  SECAN I VP-P ( H )  | MTSC2.43 Vp-p ( H )  3-Vieto Vp-p ( H )  31  AMALOO ROD  3-Vieto Vp-p ( H )  33  AMALOO ROD  3-Vieto Vp-p ( H )  34  AMALOO ROD  AMALOO RO | AMALOO ROB 3-V10CO 7 Vp-p ( )  33  AMALOO ROB 7 Vp-p ( )  33  AMALOO ROB 7 Vp-p ( )  33  AMALOO ROB 7 Vp-p ( )  34  AMALOO ROB 7 Vp-p ( )  35  AMALOO ROB 7 Vp-p ( )  36  AMALOO ROB 7 Vp-p ( )  37  AMALOO ROB 7 Vp-p ( )  38  SECAN 1 Vp-p ( )  38  SECAN 1 Vp-p ( )   |
| PALO. 8 Vp-p ( H )  O. 85 Vp-p ( H )  O. 85 Vp-p ( H )  O. 7 Vp-p ( H )  AMALOO POB PO ( H )  AMALOO POB PO ( H )  O. 7 Vp-p ( H )  O. 2 Vp-p ( H )  O. 2 Vp-p ( H )  | MISCA 43 VP-P ( H ) 9-VIDEO O. 9 VP-P ( H )  (1)  AMALOD ROB 1.3.VP-P ( H )  (3)  AMALOD ROB 1.4 VP-P ( H )  (3)  MISCA 58  O. 15 VP-P ( H )  (3)  PAL O. 3 VP-P ( H )  (3)  | AMALOO POO PO ( )  33  AMALOO POO PO ( )  33  AMALOO POO PO ( )  35  AMALOO POO PO ( )  36  AMALOO POO PO ( )  37  AMALOO POO PO ( )  38  AMALOO POO PO ( )  39  AMALOO POO PO ( )  30  AMALOO POO PO ( )  40  |
| PALO. 8 Vp-p ( H )  O. 85 Vp-p ( H )  O. 85 Vp-p ( H )  O. 7 Vp-p ( H )  AMALOO ROD 1. 4 Vp-p ( H )  Secan 1. 3 Vp-p ( H )  Secan 0. 1 Vp-p ( H )  Secan 0. 1 Vp-p ( H )  Secan 0. 2 Vp-p ( H )  | MISCA-43 VP-P ( H )  30  | AMALOO ROB   |
| 30  AMALOU ROUP-P ( H )  32  AMALOU ROUP-P ( H )  33  AMALOU ROUP-P ( H )  34  AMALOU ROUP-P ( H )  35  SECAM 1.4 VP-P ( H )  39  SECAM 1.3 VP-P ( H )  39  SECAM 0.1 VP-P ( H )  39  S-VIOCU 0.2 VP-P ( H )  39   | MISCA 43 VP-P ( H ) 9-VIDEO O. 9 VP-P ( H )  (1)  AMALOD ROB 1.3.VP-P ( H )  (3)  AMALOD ROB 1.4 VP-P ( H )  (3)  MISCA 58  O. 15 VP-P ( H )  (3)  PAL O. 3 VP-P ( H )  (3)  | AMALOO ROB   |
| PALO. 8 Vp-p ( H )  O. 85 Vp-p ( H )  O. 85 Vp-p ( H )  O. 7 Vp-p ( H )  AMALOO ROD 1. 4 Vp-p ( H )  Secan 1. 3 Vp-p ( H )  Secan 0. 1 Vp-p ( H )  Secan 0. 1 Vp-p ( H )  Secan 0. 2 Vp-p ( H )  | MISCA-43 VP-P ( H )  30  | AMALOO POOP P ( )  33  AMALOO POOP P ( )  33  AMALOO POOP P ( )  35  AMALOO POOP P ( )  35  AMALOO POOP P ( )  36  AMALOO POOP P ( )  37  AMALOO POOP P ( )  38  SECAN VP P ( )  39  O O O VP P ( )  40  SO O O VP P ( )   |









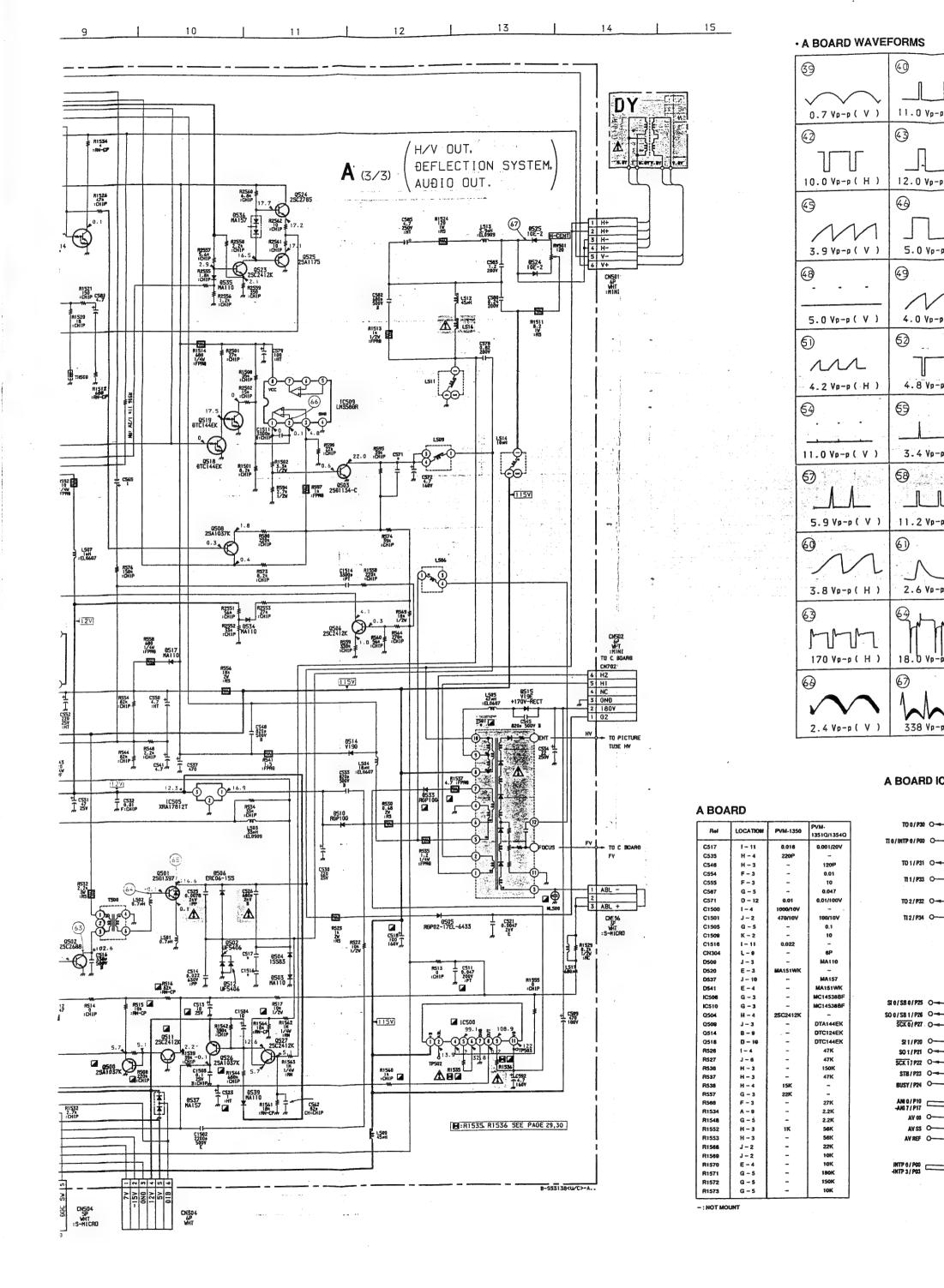


CN605

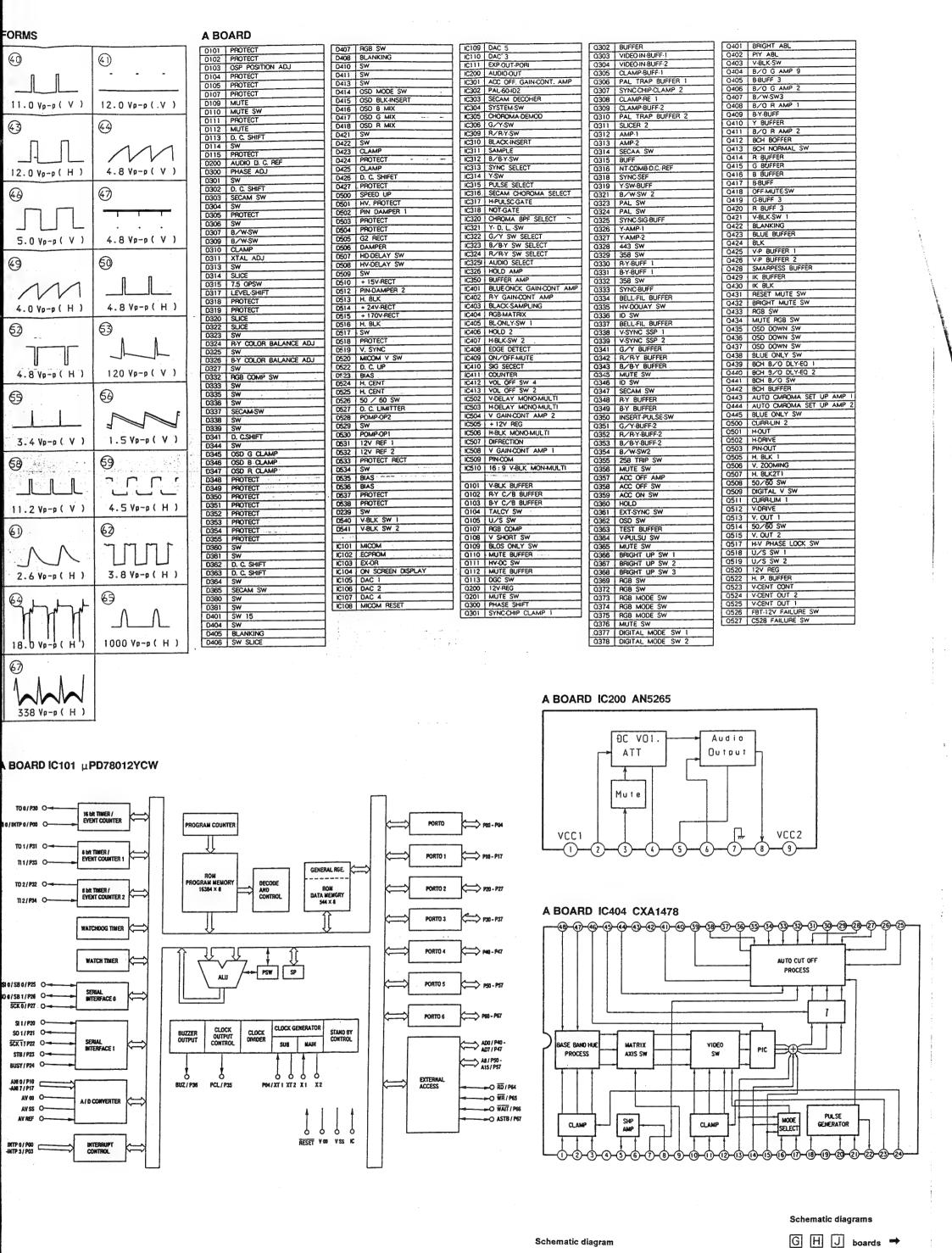
CN304 WHT

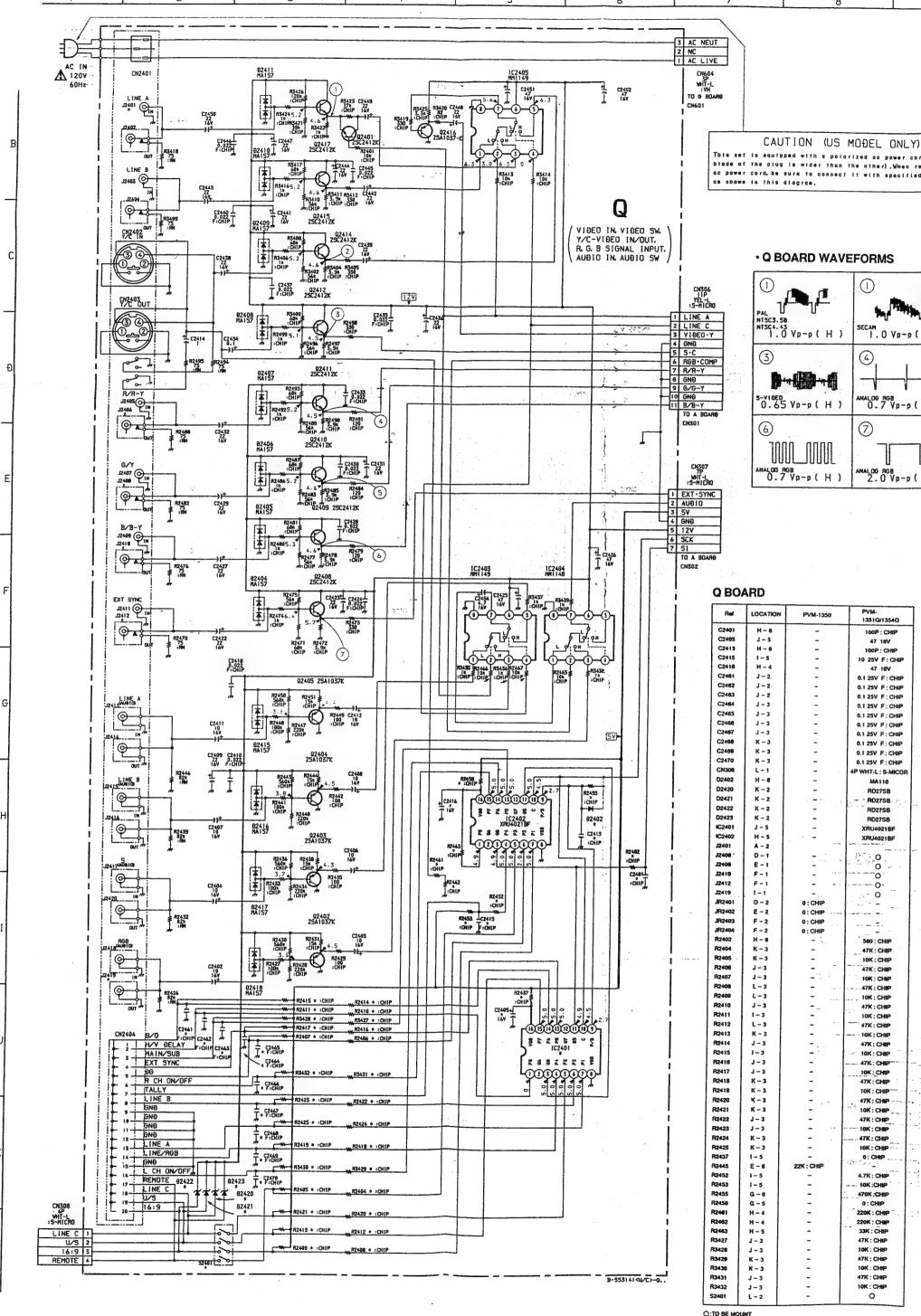
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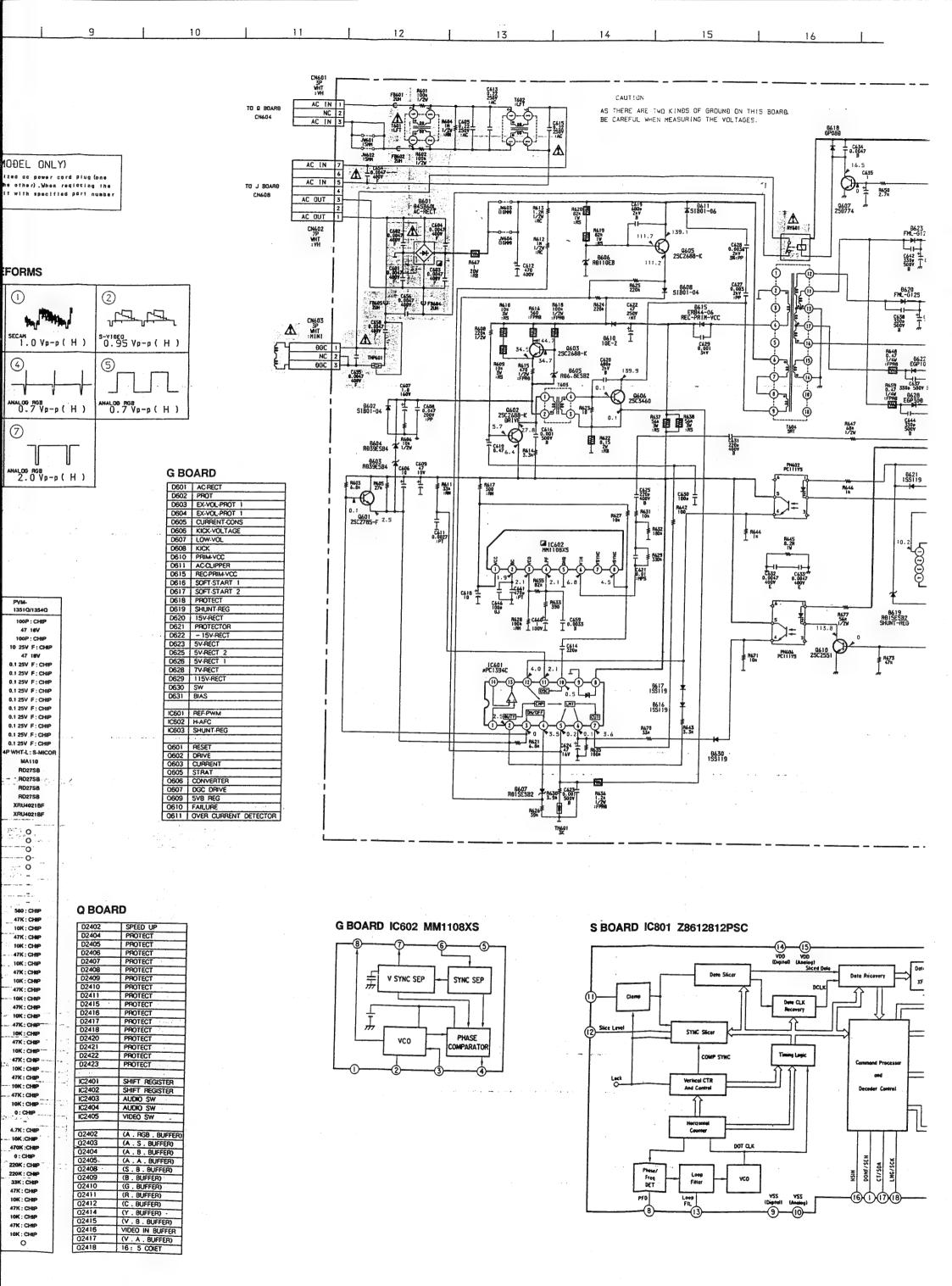


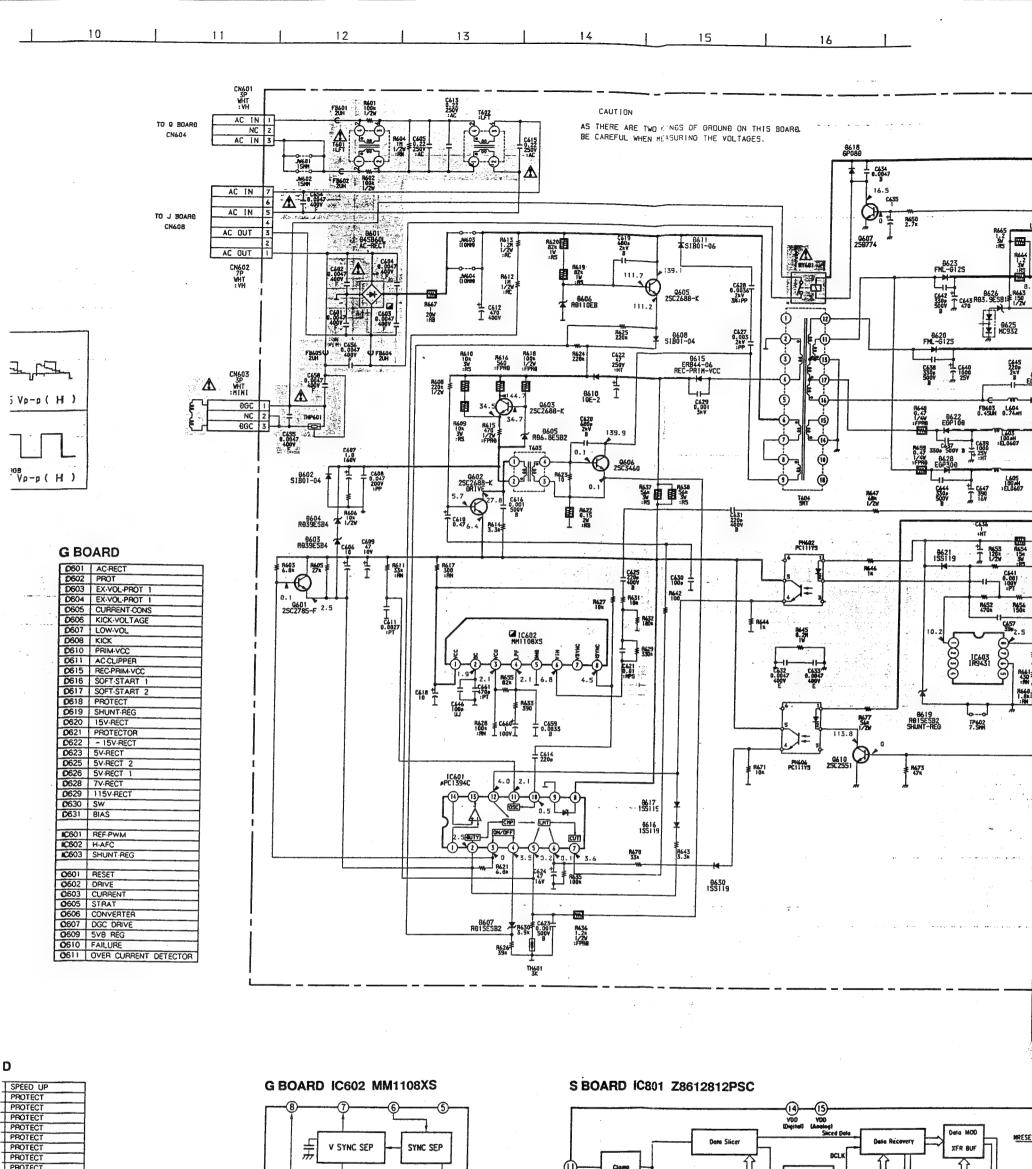
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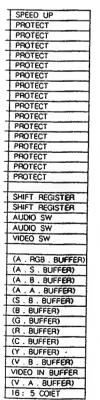


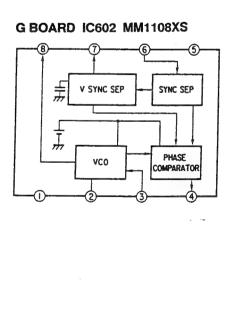


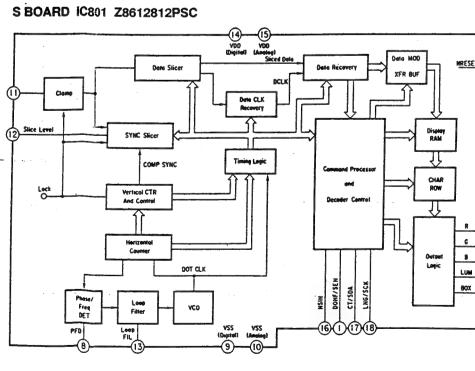
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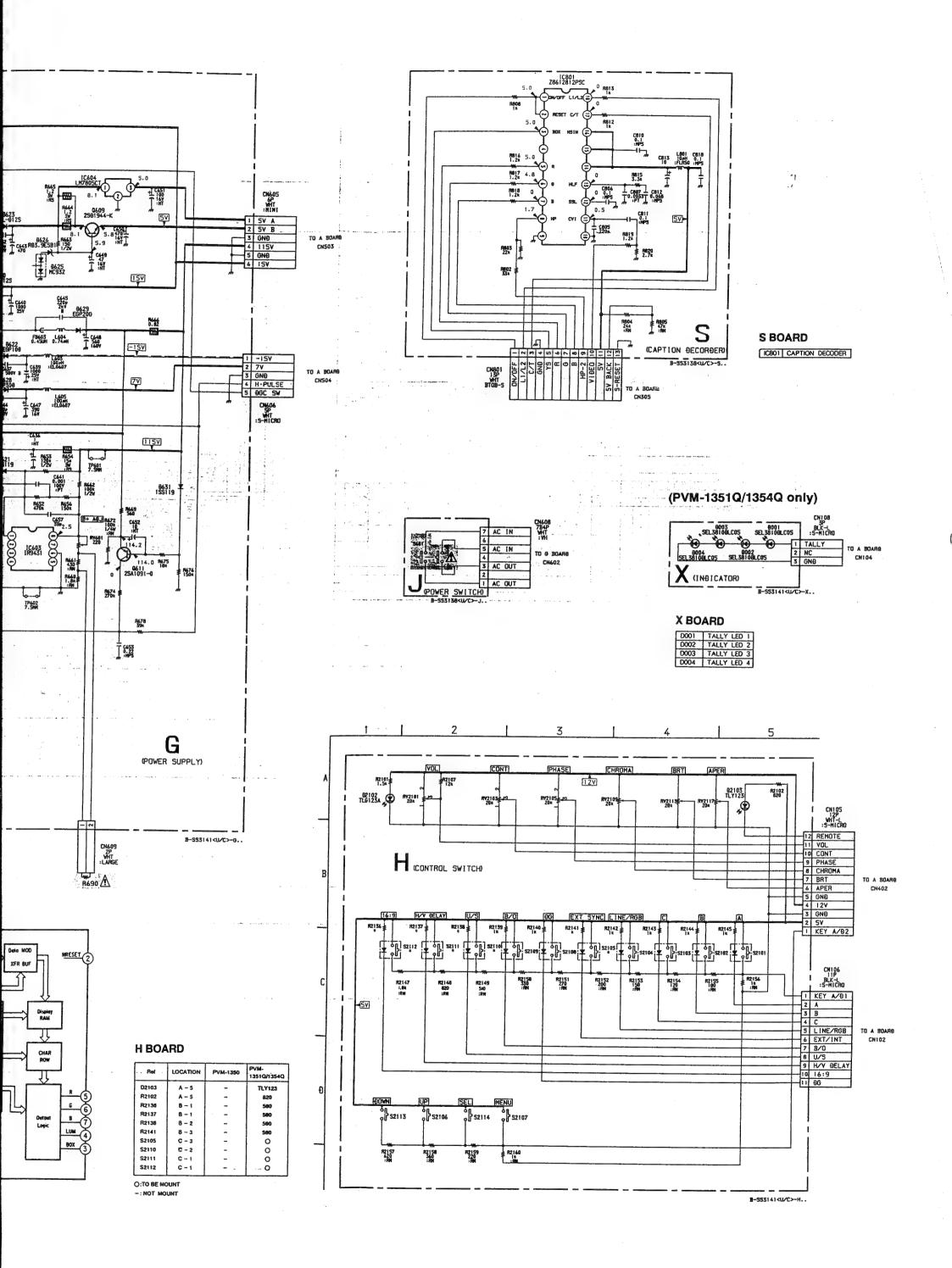


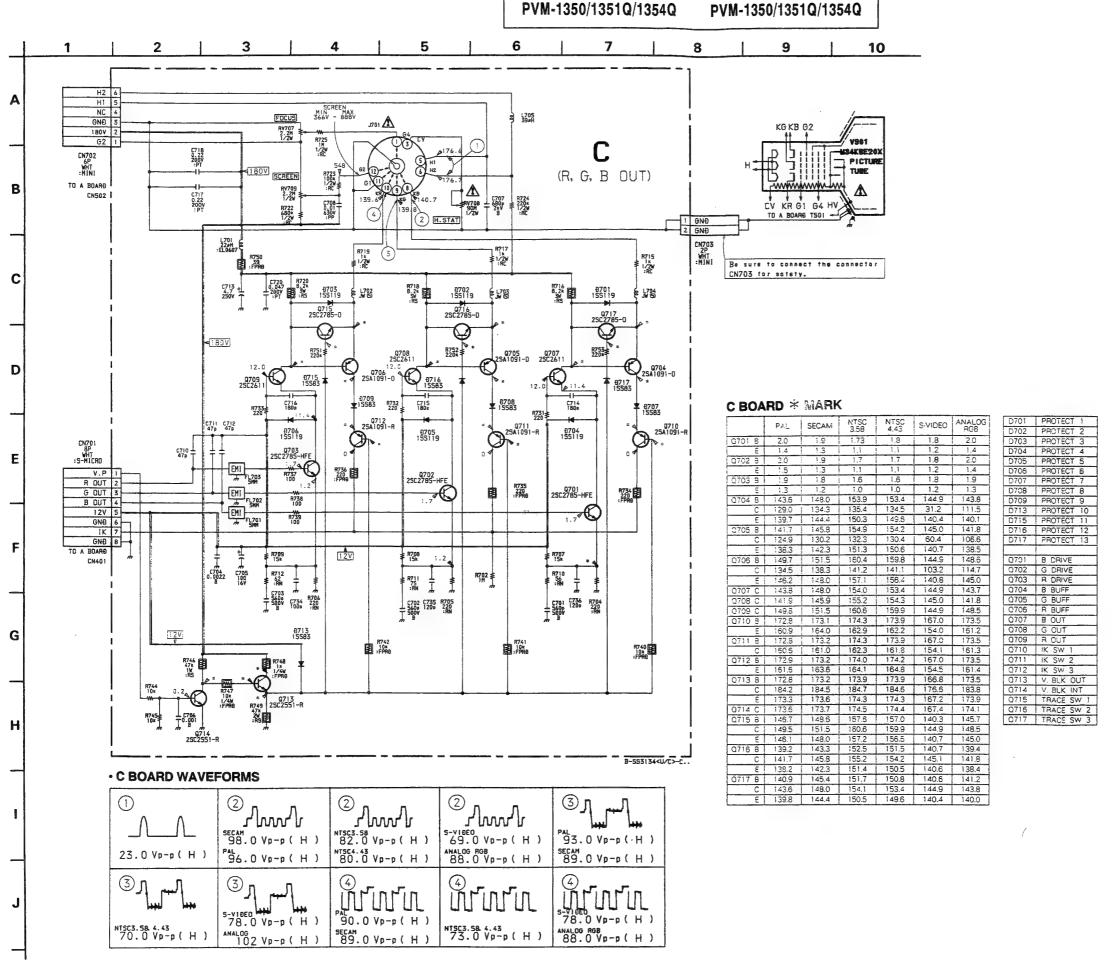


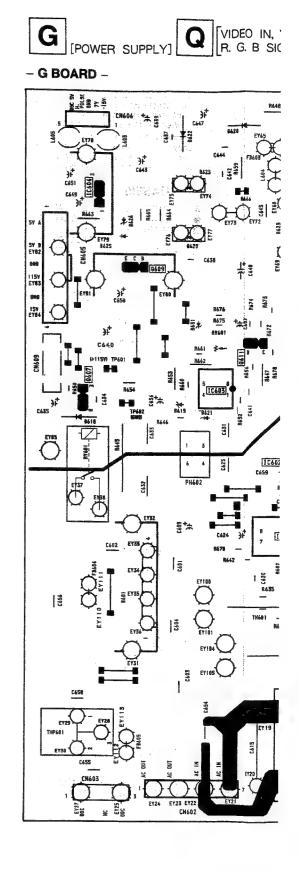




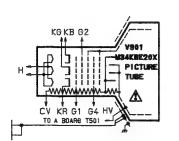








10



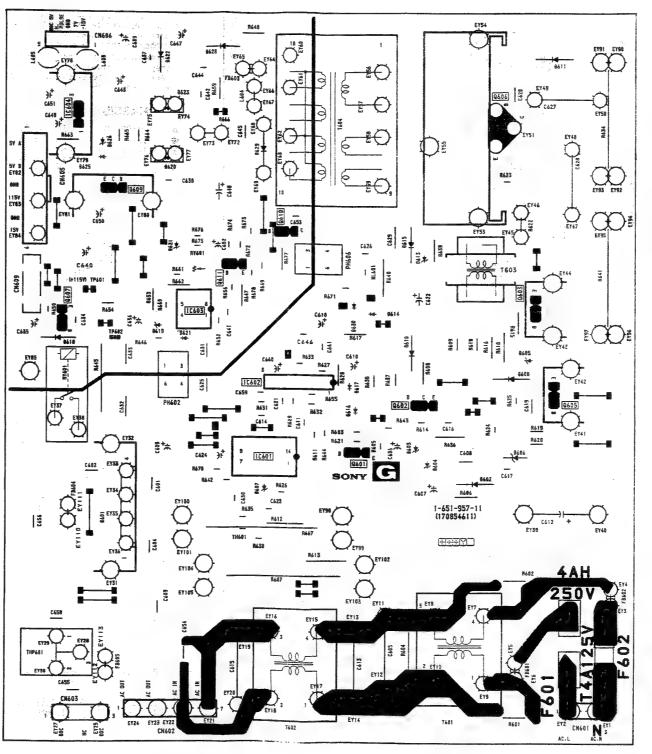
sure to connect the connector 703 for safety.

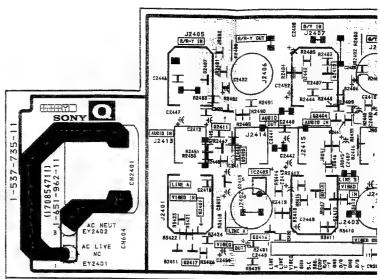
### BOARD \* MARK

|       | PAL   | SECAM | NTSC<br>3.58 | NTSC<br>4.43 | S-VIDEO | ANALOG<br>RGB |
|-------|-------|-------|--------------|--------------|---------|---------------|
| 701 B | 2.0   | 1.9   | 1.73         | 1.8          | 1.8     | 2.0           |
| E     | 1.4   | 1.3   | 1.1          | 1.1          | 1.2     | 1.4           |
| 702 B | 2.0   | 1.9   | 1.7          | 1.7          | 1.8     | 2.0           |
| E'    | 1.5   | 1.3   | 1,1          | 1,1          | 1.2     | 1.4           |
| 703 B | 1.9   | 1.8   | 1.6          | 1.6          | 1.8     | 1.9           |
| E     | 1.3   | 1.2   | 1.0          | 1.0          | 1.2     | 1.3           |
| 704 B | 143.6 | 148.0 | 153.9        | 153.4        | 144.9   | 143.8         |
| С     | 129.0 | 134.3 | 135.4        | 134.5        | 31.2    | 111.5         |
|       | 139.7 | 144.4 | 150.3        | 149.6        | 140.4   | 140.1         |
| 705 B | 141.7 | 145.8 | 154.9        | 154.2        | 145.0   | 141.8         |
| C     | 124.9 | 130.2 | 132.3        | 130.4        | 60.4    | 106.6         |
| É     | 138.3 | 142.3 | 151.3        | 150.6        | 140.7   | 138.5         |
| 706 B | 149.7 | 151.5 | 150.4        | 159.8        | 144.9   | 148.6         |
| С     | 134.5 | 138.3 | 141.2        | 141.1        | 103.2   | 114.7         |
| E     | 146.2 | 148.0 | 157.1        | 156.4        | 140.8   | 145.0         |
| 707 C | 143.8 | 148.0 | 154.0        | 153.4        | 144.9   | 143.7         |
| 708 C | 141.9 | 145.9 | 155.2        | 154.3        | 145.0   | 141.8         |
| 709 C | 149.8 | 151.5 | 160.6        | 159.9        | 144.9   | 148.5         |
| 710 B | 172.8 | 173.1 | 174.3        | 173.9        | 167.0   | 173.5         |
| ٤     | 160.9 | 164.0 | 162.9        | 162.2        | 154.0   | 161.2         |
| 711 8 | 172.3 | 173.2 | 174.3        | 173.9        | 167.0   | 173.5         |
| С     | 160.6 | 161.0 | 162.3        | 161.8        | 154.1   | 161.3         |
| 712 E | 172.9 | 173.2 | 174.0        | 174.2        | 1,67.0  | 173.5         |
| ε     | 161.6 | 163.6 | 164.1        | 164.8        | 154.5   | 161.4         |
| 713 8 | 172.8 | 173.2 | 173.9        | 173.9        | 166.8   | 173.5         |
| С     | 184.2 | 184.5 | 184.7        | 184.6        | 176.6   | 183.8         |
| Ē     | 173.3 | 173.6 | 174.3        | 174.3        | 167.2   | 173.9         |
| 714 C | 173.6 | 173.7 | 174.5        | 174.4        | 167.4   | 174.1         |
| 715 B | 146.7 | 148.6 | 157.6        | 157.0        | 140.3   | 145.7         |
| С     | 149.5 | 151.5 | 160.6        | 159.9        | 144.9   | 148.5         |
| Ε     | 146.1 | 148.0 | 157.2        | 156.5        | 140.7   | 145.0         |
| 716 B | 139.2 | 143.3 | 152.5        | 151.5        | 140.7   | 139.4         |
| С     | 141.7 | 145.8 | 155.2        | 154.2        | 145.1   | 141.8         |
| Ε     | 138.2 | 142.3 | 151.4        | 150.5        | 140.6   | 138.4         |
| 717 8 | 140.9 | 145.4 | 151.7        | 150.8        | 140.6   | 141.2         |
| C     | 143.6 | 148.0 | 154.1        | 153.4        | 144.9   | 143.8         |
| E     | 139.8 | 144.4 | 150.5        | 149.6        | 140.4   | 140.0         |

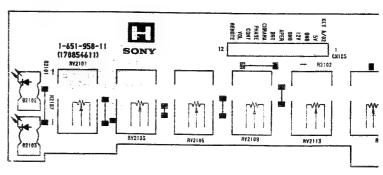
| D701 | PROTECT 1  |
|------|------------|
| D702 | PROTECT 2  |
| D703 | PROTECT 3  |
| D704 | PROTECT 4  |
| D705 | PROTECT 5  |
| D706 | PROTECT 6  |
| 9707 | PROTECT 7  |
| D708 | PROTECT 8  |
| D709 | PROTECT 9  |
| D713 | PROTECT 10 |
| D715 | PROTECT 11 |
| D716 | PROTECT 12 |
| D717 | PROTECT 13 |
|      |            |
| 0701 | B DRIVE    |
| 0702 | G DRIVE    |
| Q703 | R DRIVE    |
| 0704 | B BUFF     |
| 0705 | G BUFF     |
| 0706 | R BUFF     |
| Q707 | B OUT      |
| 0708 | G OUT      |
| Q709 | R OUT      |
| 0710 | IK SW 1    |
| Q711 | IK SW 2    |
| Q712 | IK SW 3    |
| Q713 | V. BLK OUT |
| 0714 | V. BLK INT |
| 0715 | TRACE SW 1 |
| 0716 | TRACE SW 2 |
| 0,.0 |            |

Q VIDEO IN, VIDEO SW, Y/C-VIDEO IN/OUT, R. G. B SIGNAL INPUT, AUDIO IN, AUDIO SW [POWER SUPPLY] [CONTROL SWITCH] - G BOARD -- Q BOARD -



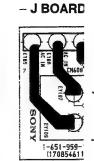


### - H BOARD --



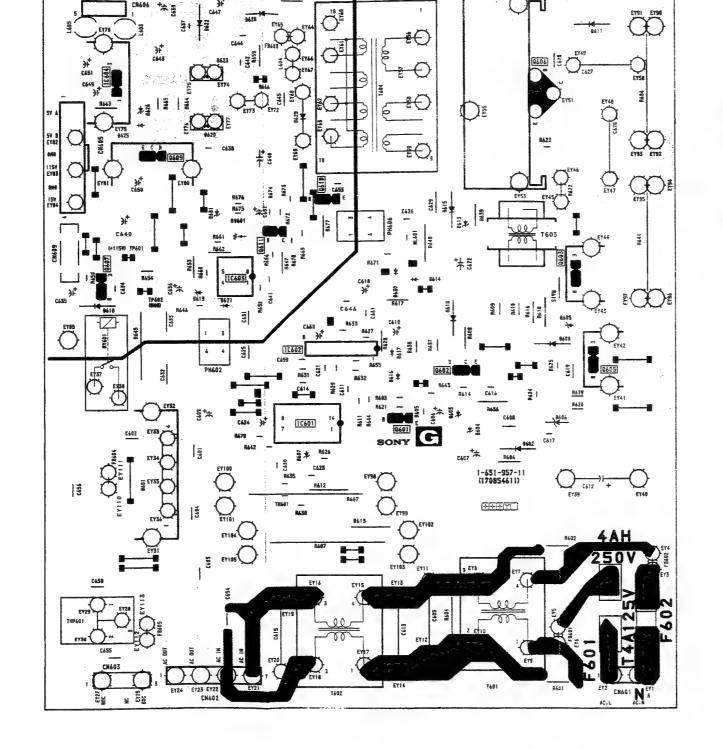
### (PVM-1351Q/1354Q only) - X BOARD -

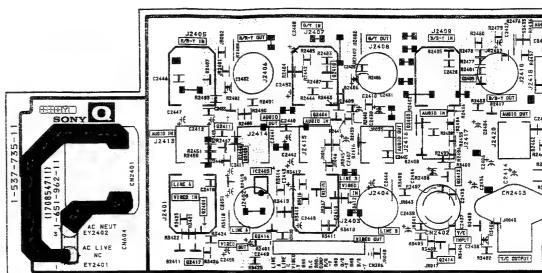




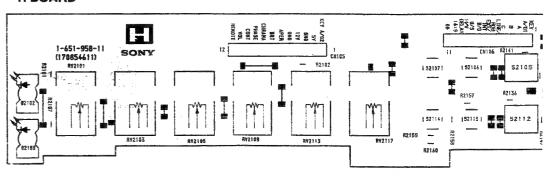


- G BOARD -



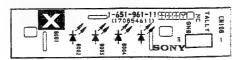


### - H BOARD -

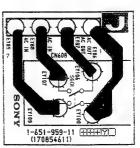


### (PVM-1351Q/1354Q only)

- X BOARD -







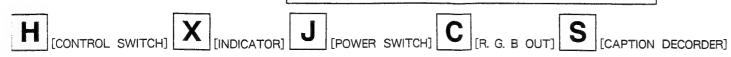
114.7 140.8 145.0 144.9 143.7

140.4 140.0

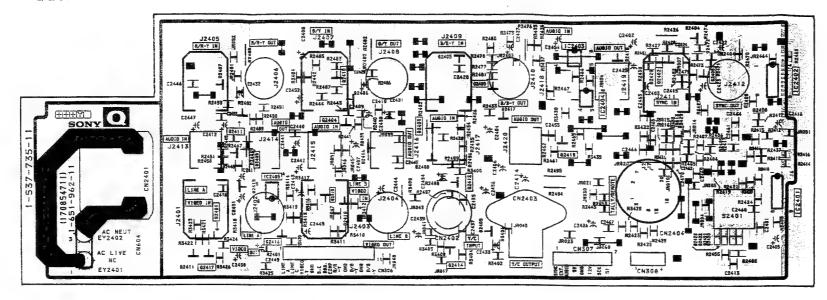
PVM-1350/1351Q/1354Q

PVM-1350/1351Q/1354Q

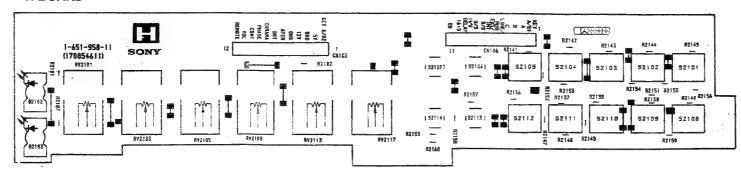
PVM-1350/1351Q/1354C



### - Q BOARD -

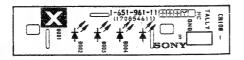


### - H BOARD -

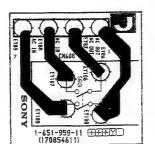


### (PVM-1351Q/1354Q only)

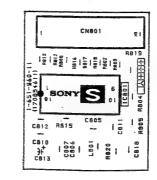
- X BOARD -



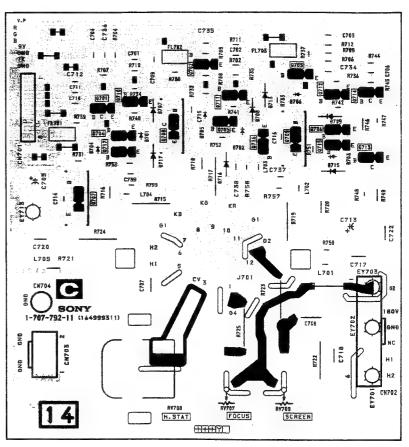
### - J BOARD -



### - S BOARD -



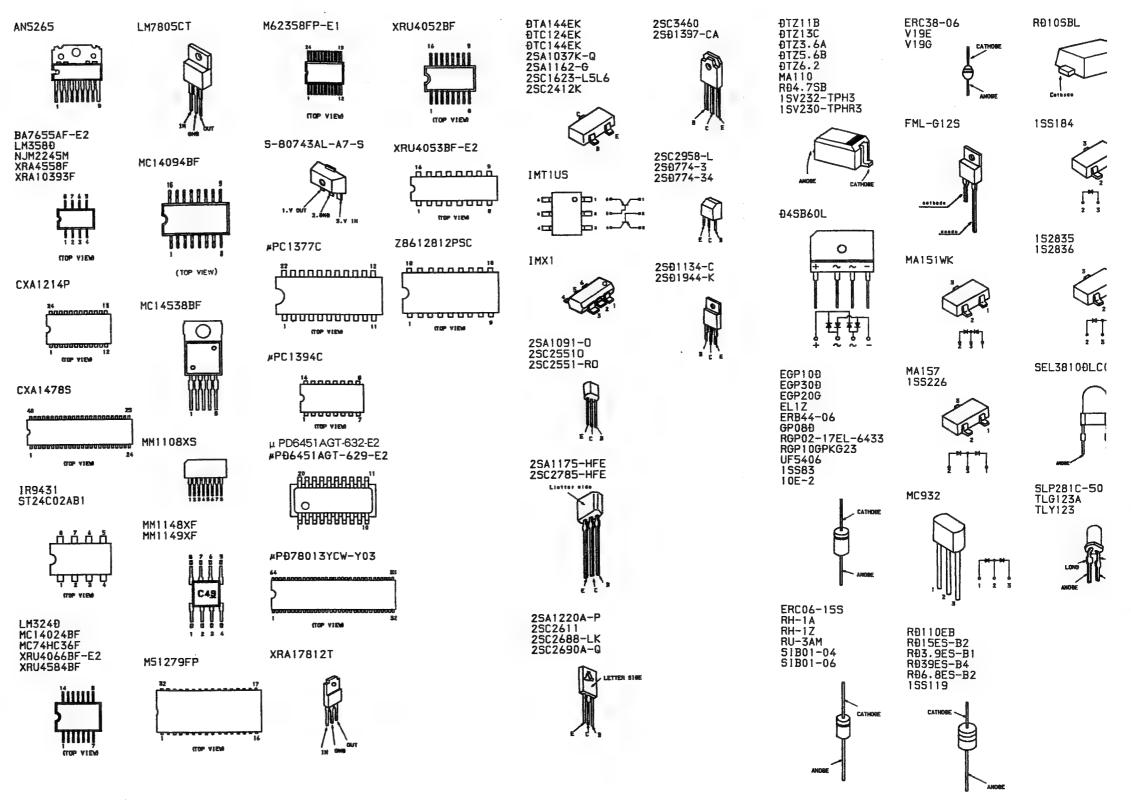
### - C BOARD --

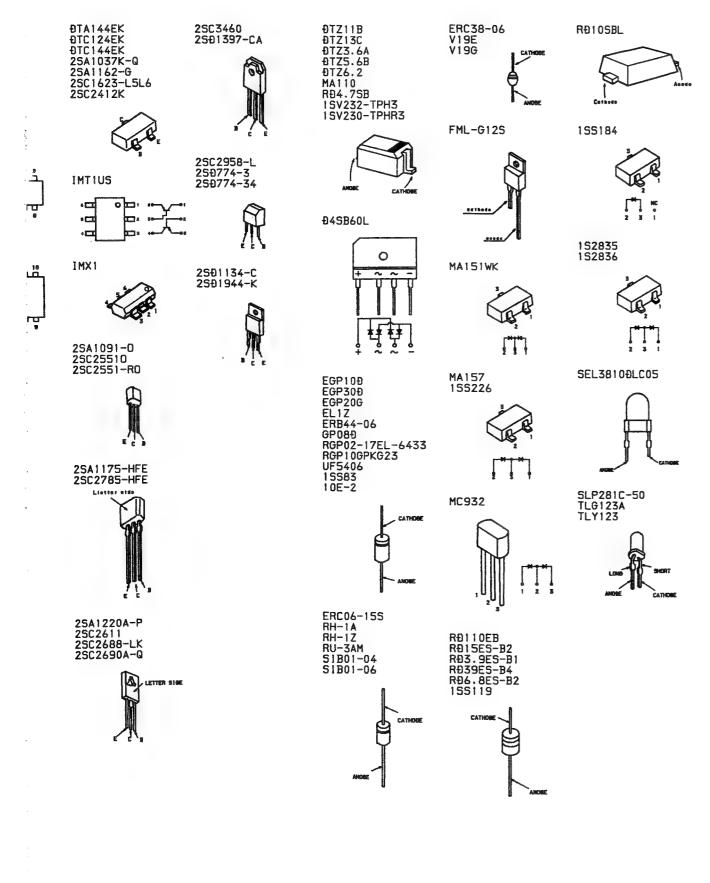


Schematic diagram

← C board

### 6-5. SEMICONDUCTONS





# SECTION 7 EXPLODED VIEWS

#### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number

specified.

Les composants identifies pa une trame et une marque A sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie

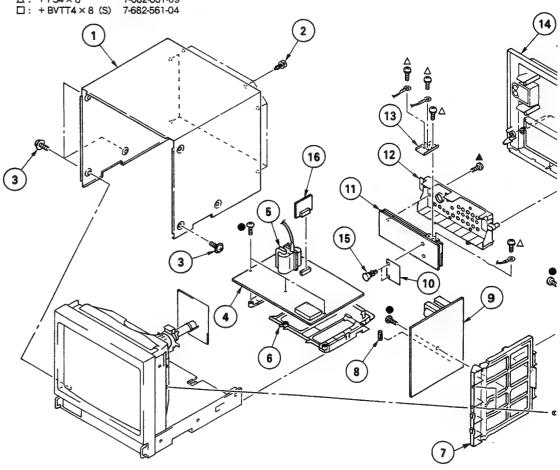
### 7-1. CHASSIS

▲: + BVTP3 × 8 7-685-646-79

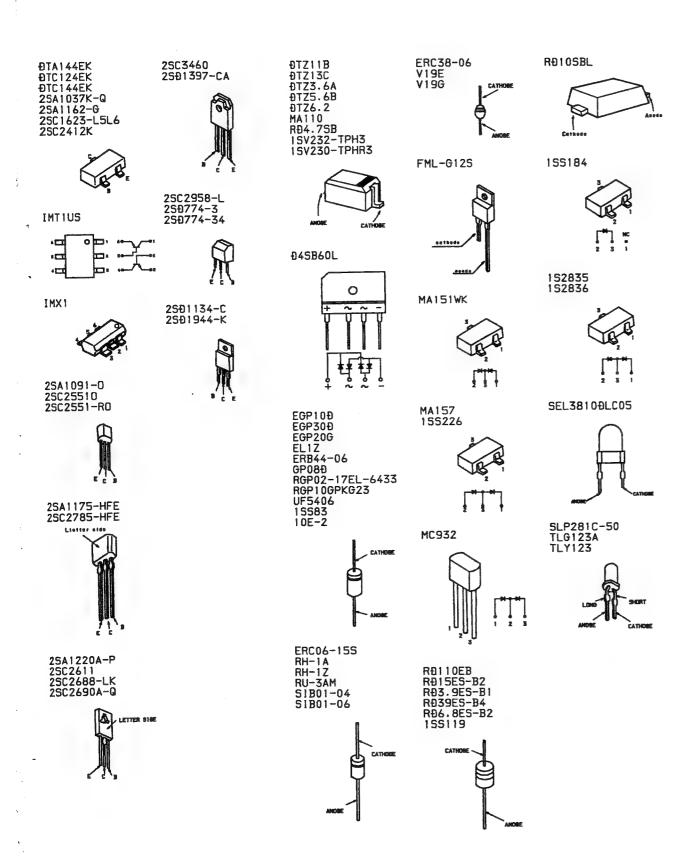
•: + BVTP3 × 12 7-685-648-79

■: + BVTP4 × 16 7-685-663-79

Δ: + PS4 × 8 7-682-661-09



| REF. NO. PART NO.                   | DESCRIPTION   | REMARK  | REF.NO.                          | PART NO.   | DESCRIPTION   |
|-------------------------------------|---|---|----------------------------------|--|---|
| *A-1297-195-A<br>*A-1297-196-A<br>5 | RIVET, NYLON<br>SCREW (OS), CASE,<br>A BOARD, COMPLETE<br>A BOARD, COMPLETE<br>TRANSFORMER ASSY,<br>BRACKET, MAIN<br>BRACKET, G<br>FUSE, GLASS TUBE | (PVM-1351Q/1354Q)<br>(PVM-1350)<br>FLYBACK<br>(4.0A/125V) | 11<br>12<br>13<br>14<br>15<br>16 | *4-044-053-01<br>1-537-735-11<br>1-537-735-21<br>4-043-688-01<br>4-043-688-01<br>*4-043-687-01<br>4-386-618-01<br>*A-1390-391-A<br>*4-044-256-01 | TERMINAL BO ARD ASSY, 1/(  TERMINAL BO ARD ASSY, 1/(  PANEL, CONN ECTOR (PVM-1:  PANEL, CONN ECTOR (PVM-1:  TERMINAL, GROUND COVER, REAR RIVET, T TY PE S BOARD, © MPLETE |



# SECTION 7 EXPLODED VIEWS

MOTE.

- Items with no part number and no description are not stocked because they are seldom required for routine service.
   The construction parts of an assembled
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- \*\* Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number

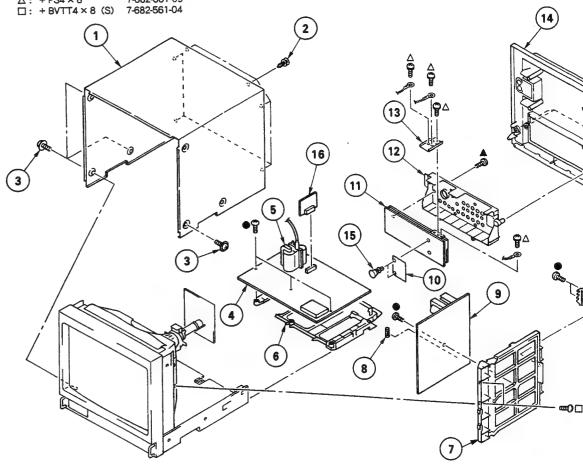
specified.

une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie

Les composants identifies par

### 7-1. CHASSIS

| •          |                  |              |
|------------|------------------|--------------|
| <b>▲</b> : | + BVTP3 × 8      | 7-685-646-79 |
| •:         | + BVTP3 × 12     | 7-685-648-79 |
| :          | + BVTP4 × 16     | 7-685-663-79 |
| Δ:         | + PS4 × 8        | 7-682-661-09 |
| = -        | · 0\(TT4++0 (0\) | 7 000 501 04 |



| *A-1297-196-A A BOARD, COMPLETE (PVM-1350)  1-537-735-21 TERMINAL BOARD ASSY, I/O (12 4-043-688-01 PANEL, CONNECTOR (PVM-1350)  *A-1453-163-11 TRANSFORMER ASSY, FLYBACK 4-043-688-01 PANEL, CONNECTOR (PVM-1350)  *A-043-689-01 BRACKET, MAIN 13 *4-043-678-01 TERMINAL, GROUND 14 4-043-687-01 COVER, REAR 4-043-687-01 COVER, REAR 4-386-618-01 RIVET, T TYPE 16 *A-1390-391-A S BOARD, COMPLETE | REF.NO. PART NO.   | DESCRIPTION   | REMARK | REF.NO.                          | PART NO.   | DESCRIPTION   |
|---|--|---|--------|----------------------------------|--|---|
|   | 2 4-391-825-01<br>3 4-847-802-11<br>4 *A-1297-195-A<br>*A-1297-196-A<br>5 A 1-453-163-11<br>6 *4-043-690-01<br>7 *4-043-689-01<br>8 A 1-532-746-11 | RIVET, NYLON SCREW (OS), CASE, CLAW A BOARD, COMPLETE (PVM-1351Q/135- A BOARD, COMPLETE (PVM-1350)  TRANSFORMER ASSY, FLYBACK BRACKET, MAIN BRACKET, G FUSE, GLASS TUBE (4.0A/125V) | 4Q)    | 11<br>12<br>13<br>14<br>15<br>16 | 1-537-735-11<br>1-537-735-21<br>4-043-688-01<br>4-043-688-11<br>*4-043-678-01<br>4-043-687-01<br>4-386-618-01<br>*A-1390-391-A | TERMINAL BOARD ASSY, I/O (A (PVM-<br>TERMINAL BOARD ASSY, I/O (E PANEL, CONNECTOR (PVM-1351) PANEL, CONNECTOR (PVM-1350) TERMINAL, GROUND COVER, REAR RIVET, T TYPE S BOARD, COMPLETE |

# SECTION 7 EXPLODED VIEWS

#### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

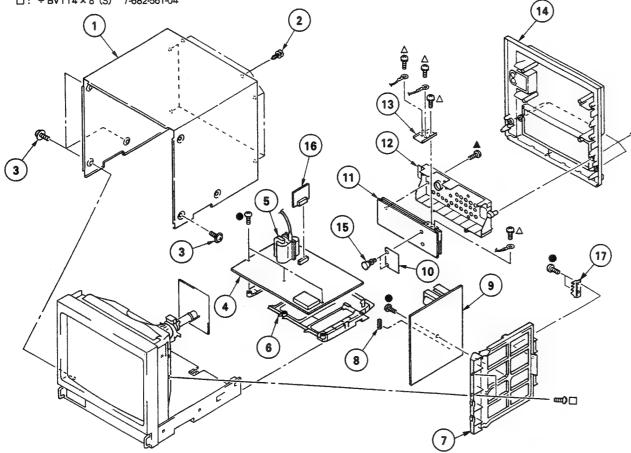
# The components identified by shading and mark $\triangle$ are critical for safety.

specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

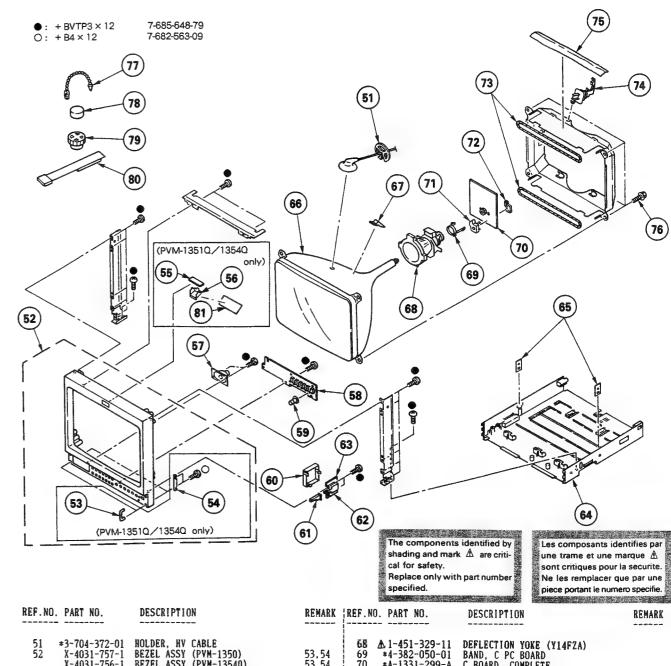
### 7-1. CHASSIS

| ▲: +BVTP  | 3×8       | 7-685-646-79 |
|-----------|-----------|--------------|
|           | 3 × 12    | 7-685-648-79 |
| : + BVTP  | 4 × 16    | 7-685-663-79 |
| Δ: +PS4>  | ٤ 8       | 7-682-661-09 |
| □: + BVTT | 4 × 8 (S) | 7-682-561-04 |



| REF.NO. PART NO. | DESCRIPTION  | REMARK | REF. NO.                                     | PART NO.   | DESCRIPTION   | REMARK   |
|------------------|--|--------|--|--|---|----------|
| *A-1297-196-A  5 | SCREW (OS), CASE, CLAW<br>A BOARD, COMPLETE (PVM-1351Q/135<br>A BOARD, COMPLETE (PVM-1350)<br>TRANSFORMER ASSY, FLYBACK<br>BRACKET, MAIN<br>BRACKET, G | 64Q)   | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17 | *4-044-053-01<br>1-537-735-11<br>1-537-735-21<br>4-043-688-01<br>4-043-688-11<br>*4-043-687-01<br>4-043-687-01<br>4-386-618-01<br>*A-1390-391-A<br>*4-044-256-01 | (PVM-135) TERMINAL BOARD ASSY, I/O (B) (F PANEL, CONNECTOR (PVM-13510) TERMINAL, GROUND COVER, REAR RIVET, T TYPE S BOARD, COMPLETE | VM-1350) |

### 7-2. PICTURE TUBE



| KEP.NU. PAKI NU.   | DESCRIPTION  | KEMAKK K                                      | Ŀ |
|--|--|---|---|
| 51 *3-704-37<br>52 X-4031-7<br>X-4031-7<br>X-4031-7<br>53 4-043-68 | 57-1 BEZEL ÁSSY (PVM-1350)<br>56-1 BEZEL ASSY (PVM-1354Q)<br>56-2 BEZEL ASSY (PVM-1351Q)   | 53,54<br>53,54<br>53,54<br>-1351Q/1354Q)      |   |
| 56 *4-043-68<br>57 1-544-06<br>58 *A-1371-9                        | 90-A X BOARD, COMPLETE (PVM<br>2-01 REFLECTOR, LED (PVM-13   | -1351Q/1354Q)<br>-51Q/1354Q)<br>-1351Q/1354Q) |   |
| 61 4-043-68<br>62 <u>A</u> 1-692-92                                | 62-2 KNOB ASSY, CONTROL<br>1-01 COVER, AC SWITCH<br>3-01 BUTTON, POWER SWITCH<br>1-11 SWITCH, PUSH (A.C. POW<br>66-A J BOARD, COMPLETE |   |   |
| 65 4-042-60  | 11-1 CABINET ASSY, BOTTOM<br>8-01 NUT, PLATE<br>2-05 PICTURE TUBE (M34KBE20<br>5-05 PICTURE TUBE (A34JHS12<br>1-01 SPACER, DY          | IX) (PVM-1354Q)<br>IX) (PVM-1350/1351Q)       |   |
|  |  | 1   |   |

### **SECTION 8 ELECTRICAL PARTS LIST**

### A (PVM-1351Q/1354Q)

#### NOTE:

The components identified by shading and mark A are critical for safety.

Replace only with part number specified. 

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. 200

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- · All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

#### RESISTORS

- All resistors are in ohms
   F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS COILS • MF : µF, PF : µµF \* MMH : mH, UH : μH

- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- \* : Selected to yield optimum performance.
- · There are some cases the reference number on one hoard overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

| include the board name.  |   |                          |  |                                      |  |  |  |                                 |                                  |
|--|---|--------------------------|--|--------------------------------------|--|--|--|---------------------------------|----------------------------------|
| REF.NO. PART NO.   | DESCRIPTION   |                          | REMARK                                 | REF.NO.                              | PART NO.   | DESCRIPTION  |  |                                 | REMARK                           |
| 1-540-044-11   | A BOARD, COMPLETE (PVM-13 *********************************** SOCKET, IC HEAT SINK, H. PIN        |                          | <b>4</b> Q)                            | C171<br>C172<br>C173<br>C174<br>C200 | 1-163-251-11<br>1-163-243-11<br>1-163-243-11<br>1-163-243-11<br>1-124-927-11 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>ELECT                  | 100PF<br>47PF<br>47PF<br>47PF<br>4.7MF               | 5%<br>5%<br>5%<br>20%           | 50V<br>50V<br>50V<br>50V<br>50V  |
| *4-043-154-01<br>*4-043-994-01<br>4-363-414-00<br>4-382-854-11   | HEAT SINK, H. PIN<br>HOLDER, IC<br>PLATE (CF), SHIELD<br>SPACER, MICA<br>SCREW (M3X10), P, SW (+) |                          |  | C201<br>C202<br>C203<br>C204         | 1-106-383-00<br>1-163-017-00<br>1-124-927-11<br>1-124-907-11                 | MYLAR<br>CERAMIC CHIP<br>ELECT<br>ELECT  | 0.047MF<br>0.0047MF<br>4.7MF<br>10MF                 | 10%<br>10%<br>20%<br>20%<br>20% | 100V<br>50V<br>50V<br>50V<br>16V |
|  | ND PASS FLTER>  |                          |  |                                      | 1-124-360-00<br>1-126-375-11   |  | 1000MF   | 20%                             |                                  |
|  | FILTER, BAND PASS   |                          |  | C206<br>C207<br>C208<br>C209<br>C300 | 1-124-478-11<br>1-124-907-11<br>1-124-927-11<br>1-163-031-11                 | ELECT<br>ELECT<br>ELECT<br>CERAMIC CHIP  | 100MF<br>100MF<br>10MF<br>4.7MF<br>0.01MF            | 20%<br>20%<br>20%               | 25V<br>25V<br>50V<br>50V<br>50V  |
|  | PACITOR>  |                          |  | C304                                 | 1-164-004-11   | CERAMIC CHIP   | 0.1MF  | 10%                             | 25V                              |
| C115 1-163-031-11  | CERAMIC CHIP O.OIMF<br>CERAMIC CHIP O.OIMF  |                          | 50V<br>50V<br>50V<br>50V<br>50V        | C305<br>C306<br>C309<br>C310         | 1-163-125-00<br>1-163-031-11<br>1-163-031-11<br>1-164-004-11                 | CERAMIC CHIP<br>CERAMIC CHIP   | 0.01MF<br>0.01MF                                     | 5%<br>10%                       | 50V<br>50V<br>50V<br>25V         |
| C116 1-163-031-11<br>C117 1-163-031-11<br>C118 1-163-125-00<br>C119 1-165-319-11<br>C121 1-163-237-1                   | CERAMIC CHIP 0.01MF CERAMIC CHIP 220PF CERAMIC CHIP 0.1MF CERAMIC CHIP 27PF                       | 5%<br>5%                 | 50V<br>50V<br>50V<br>50V               | C311<br>C312<br>C313<br>C314<br>C315 | 1-163-809-11<br>1-124-925-11<br>1-163-145-00<br>1-163-249-11<br>1-124-907-11 | ELECT<br>CERAMIC CHIP<br>CERAMIC CHIP<br>ELECT   | 2.2MF<br>0.0015MF<br>82PF<br>10MF                    | 10%<br>20%<br>5%<br>5%<br>20%   | 25V<br>50V<br>50V<br>50V<br>50V  |
| C123 1-165-319-11<br>C124 1-163-251-1<br>C132 1-163-141-00<br>C133 1-163-251-1<br>C134 1-163-251-1<br>C135 1-163-251-1 | CERAMIC CHIP 100PF CERAMIC CHIP 0.001MF CERAMIC CHIP 100PF  | 5%<br>5%                 | 50V<br>50V<br>50V<br>50V<br>50V<br>50V | C316<br>C317<br>C318<br>C319<br>C320 | 1-124-477-11<br>1-163-097-00<br>1-124-907-11<br>1-163-222-11<br>1-163-031-11 | CERAMIC CHIP<br>ELECT  | 47MF<br>15PF<br>10MF<br>5PF<br>0.01MF                | 20%<br>5%<br>20%<br>0.25PF      | 50V                              |
| C136 1-163-251-1<br>C141 1-164-161-1<br>C142 1-163-125-0<br>C143 1-165-319-1<br>C144 1-165-319-1                       | CERAMIC CHIP 100PF  | 5%<br>10%                | 50V<br>50V<br>50V<br>50V<br>50V        | C322<br>C323<br>C324<br>C325<br>C326 | 1-163-119-00<br>1-163-097-00<br>1-163-235-11<br>1-124-907-11<br>1-164-004-11 | CERAMIC CHIE<br>CERAMIC CHIE<br>ELECT<br>CERAMIC CHIE                                  | 2 15PF<br>22PF<br>10MF<br>2 0.1MF                    | 5%<br>5%<br>5%<br>20%<br>10%    | 50V<br>50V<br>50V<br>50V<br>25V  |
| C145 1-165-319-1<br>C154 1-163-037-1<br>C155 1-163-023-0   | 1 CERAMIC CHIP 0.1MF<br>1 CERAMIC CHIP 0.022MF<br>0 CERAMIC CHIP 0.015MF                          | 10%<br>10%<br>10%<br>10% | 50V<br>25V<br>50V<br>50V<br>50V        | C327<br>C328<br>C329<br>C330<br>C331 | 1-164-004-11<br>1-163-031-11<br>1-163-251-11<br>1-163-243-11<br>1-163-097-00 | CERAMIC CHIE<br>CERAMIC CHIE<br>CERAMIC CHIE   | 0.01MF<br>100PF<br>2.47PF                            | 10%<br>5%<br>5%<br>5%           | 25V<br>50V<br>50V<br>50V<br>50V  |
| C158 1-163-809-1<br>C159 1-163-037-1<br>C161 1-124-477-1   | 1 CERAMIC CHIP 0.047MF<br>1 CERAMIC CHIP 0.022MF<br>1 ELECT 47MF<br>0 CERAMIC CHIP 0.001MF        | 10%<br>10%<br>20%<br>5%  | 25V<br>25V<br>16V<br>50V<br>50V        | C332<br>C333<br>C334<br>C335<br>C336 | 1-164-004-11<br>1-163-031-11<br>1-163-141-00<br>1-163-141-00<br>1-124-477-11 | CERAMIC CHI<br>CERAMIC CHI<br>CERAMIC CHI<br>ELECT                                     | P 0.01MF<br>P 0.001MF<br>P 0.001MF<br>47MF           | 5%<br>5%<br>20%                 | 25V<br>50V<br>50V<br>50V<br>25V  |
| C164 1-165-319-1<br>C165 1-165-319-1<br>C166 1-164-004-1<br>C167 1-124-472-1<br>C168 1-124-472-1                       | CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.01MF   | 10%<br>20%<br>20%        | 50V<br>25V<br>10V<br>10V               | C337<br>C338<br>C339<br>C340<br>C341 | 1-163-031-1<br>1-163-119-00<br>1-163-097-00<br>1-163-031-1<br>1-163-119-00   | CERAMIC CHI<br>CERAMIC CHI<br>CERAMIC CHI<br>CERAMIC CHI<br>CERAMIC CHI<br>CERAMIC CHI | P 0.01MF<br>P 120PF<br>P 15PF<br>P 0.01MF<br>P 120PF | 5%<br>5%<br>5%                  | 50V<br>50V<br>50V<br>50V<br>50V  |
| C169 1-164-232-1   | 11 CERAMIC CHIP O.OIMF  | 10%                      | 50V                                    | C342                                 |  | O CERAMIC CHI  |  | 10%                             | 50V                              |

| _ /                          |  |  |                                 |                   |                          |                              |  |  |                   |                          |
|------------------------------|--|--|---------------------------------|-------------------|--------------------------|------------------------------|--|--|-------------------|--------------------------|
|                              | PART NO.   |  |                                 |                   |                          | REF.NO.                      | PART NO.                                     | DESCRIPTION  |                   | REMARK                   |
| C343<br>C344                 | 1-163-031-11<br>1-163-141-00                                 | CERAMIC CHIP O<br>CERAMIC CHIP O<br>CERAMIC CHIP O   | .01MF                           | 5%                | 50V<br>50V               | C409                         |  | CERAMIC CHIP 0.01MF  |                   | 50V                      |
| C347                         | 1-163-243-11   | CERAMIC CHIP 4   | 7PF                             | 5%                | 50V                      | C410<br>C411<br>C414<br>C415 |  | ELECT 22MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.01MF ELECT 10MF                     | 20/g              | 50V<br>25V<br>50V<br>50V |
| C348<br>C349<br>C350         | 1-164-004-11<br>1-163-141-00                                 | CERAMIC CHIP O<br>CERAMIC CHIP O<br>CERAMIC CHIP O   | ). 1MF<br>). 001MF              | 10%<br>5%<br>5%   | 25V<br>50V<br>50V        | C416<br>C417                 | 1-164-232-11                                 | CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF  | 10%               | 50V<br>50V               |
| C351<br>C352<br>C353         |  |  |                                 |                   | O. H. C.T.               | C418<br>C419<br>C420<br>C421 | 1-164-182-11<br>1-124-472-11<br>1-163-809-11 | CERAMIC CHIP 0.0033MF  | 10%<br>20%<br>10% | 50V<br>10V<br>25V<br>25V |
| C354<br>C355<br>C356<br>C357 | 1-163-121-00<br>1-124-903-11<br>1-124-927-11<br>1-163-031-11 | CERAMIC CHIP O CERAMIC CHIP O CERAMIC CHIP I ELECT ELECT CERAMIC CHIP O CERAMIC CHIP O   | 150PF<br>IMF<br>4.7MF<br>0.01MF | 5%<br>20%<br>20%  | 50V<br>50V<br>50V<br>50V | C422<br>C423<br>C424         | 1-124-903-11<br>1-163-809-11<br>1-163-809-11 | ELECT 1MF<br>CERAMIC CHIP 0.047MF<br>CERAMIC CHIP 0.047MF<br>CERAMIC CHIP 0.01MF | 20%<br>10%<br>10% | 50V<br>25V<br>25V<br>50V |
| C358<br>C359                 | 1-163-031-11<br>1-124-477-11                                 | CERAMIC CHIP CERAM | 0.01MF<br>47MF                  | 20%               | 257                      | C425<br>C426                 | 1-163-243-11                                 | CERAMIC CHIP 47PF  | 5%                | 50V                      |
| C360<br>C361<br>C362         | 1-163-031-11   | CERAMIC CHIP (   | D. OIMF                         |                   | 50V<br>50V<br>50V        | C427<br>C428<br>C429<br>C430 | 1-163-031-11<br>1-124-119-00                 | ELECT 330MF<br>CERAMIC CHIP 0.01MF<br>ELECT 330MF                                | 20%<br>20%        | 50V<br>16V<br>50V<br>16V |
| C363<br>C364<br>C365         | 1-163-099-00<br>1-163-031-11<br>1-106-343-00                 | CERAMIC CHIP I<br>CERAMIC CHIP (<br>MYLAR  | 18PF<br>0.01MF<br>0.001MF       | 5%<br>10%         | 50V<br>50V<br>100V       | C431                         | 1-165-319-11                                 | CERAMIC CHIP 0.1MF   | 10%               | 50V<br>25V               |
| C366<br>C367                 | 1-163-031-11<br>1-163-031-11                                 | CERAMIC CHIP (   | 0.01MF<br>0.01MF                |                   | 50V<br>50V               | C433<br>C434<br>C435         | 1-163-235-11<br>1-163-031-11<br>1-163-089-00 | CERAMIC CHIP 22PF<br>CERAMIC CHIP 0.01MF<br>CERAMIC CHIP 6PF                     | 5%<br>0.25PF      | 50V<br>50V<br>50V        |
| C368<br>C369<br>C370         | 1-124-907-11<br>1-164-298-11<br>1-124-477-11                 | CERAMIC CHIP   | 10MF<br>0.15MF<br>47MF          | 20%<br>10%<br>20% | 50V<br>25V<br>25V<br>25V | C436                         | 1-164-004-11<br>1-164-004-11                 | CERAMIC CHIP O.1MF   | 10%               | 25V<br>25V               |
| C371<br>C372                 | 1-124-477-11<br>1-163-031-11                                 | ELECT<br>CERAMIC CHIP  |                                 | 20%               | 50V                      | C438<br>C439<br>C440         | 1-163-809-11<br>1-163-809-11<br>1-163-031-11 | CERAMIC CHIP 0.047MF   | 10%<br>10%        | 25V<br>25V<br>50V        |
| C373<br>C374<br>C375         | 1-124-903-11   | CERAMIC CHIP<br>ELECT<br>CERAMIC CHIP  | 1MF                             | 5%<br>20%<br>5%   | 50V<br>50V<br>50V        | C441<br>C442                 | 1-126-962-11<br>1-163-809-11                 | CERAMIC CHIP O 047MF   | 20%<br>10%        | 50 V<br>25 V             |
| C376<br>C377                 | 1-124-902-00<br>1-163-809-11                                 | ELECT  | 0.47MF                          | 20%<br>10%        | 50V<br>25V               | C443<br>C444<br>C445         | 1-163-243-11<br>1-165-319-11<br>1-163-809-11 | CERANIC CHIP 47PF<br>CERANIC CHIP 0.1MF  | 10Z               | 50V<br>50V<br>25V        |
| C378<br>C379                 | 1-163-031-11   | CERAMIC CHIP   | 0.01MF                          | 10%<br>20%        | 25V<br>50V<br>10V        | C446<br>C447                 | 1-163-089-00<br>1-163-263-11                 | CERAMIC CHIP 6PF   | 0.25PF            | 50V<br>50V               |
| C380<br>C381<br>C382         | 1-124-472-11<br>1-163-031-11<br>1-163-243-11                 | CERAMIC CHIP<br>CERAMIC CHIP   | 47PF                            | 5%                | 50V<br>50V               | C448<br>C449<br>C450         | 1-163-243-11<br>1-163-227-11<br>1-163-809-11 | CERAMIC CHIP 47PF<br>CERAMIC CHIP 10PF<br>CERAMIC CHIP 0.047MF                   | 10%               | 50V<br>50V<br>25V<br>25V |
| C383<br>C384<br>C385         | 1-124-477-11<br>1-163-249-11<br>1-124-477-11                 | ELECT CERAMIC CHIP ELECT ELECT CERAMIC CHIP  | 47MF<br>82PF<br>47MF            | 20%<br>5%<br>20%  | 25V<br>50V<br>25V        | C451                         | 1-164-004-11<br>1-163-263-11                 | CERAMIC CHIP 330PF   | 10%<br>5%         | 50V                      |
| C386<br>C387                 | 1-124-907-11<br>1-163-141-00                                 | ELECT<br>CERAMIC CHIP  | 10MF<br>0.001MF                 |                   | 50V<br>50V               | C453<br>C454<br>C455         | 1-163-243-11<br>1-163-263-11                 | CERAMIC CHIP 47PF<br>CERAMIC CHIP 330PF  | 5%<br>5%          | 50V<br>50V<br>50V        |
| C388<br>C389<br>C390         | 1-124-907-11<br>1-124-477-11<br>1-163-243-11                 | ELECT  | 10MF<br>47MF<br>47PF            | 20%<br>20%<br>5%  | 50V<br>25V<br>50V        | C456                         |  | CERAMIC CHIP 6PF CERAMIC CHIP 0.01MF   | 0.25P             | F 50V<br>50V             |
| C391<br>C392                 | 1-124-477-11   | ELECT  | 47MF                            | 20%<br>10%        | 25V<br>25V               | C458<br>C459<br>C460         | 1-163-249-11<br>1-165-319-11<br>1-164-004-11 | CERAMIC CHIP 82PF<br>CERAMIC CHIP 0.1MF  | 5%<br>1 <b>0%</b> | 50V<br>50V<br>25V        |
| C393<br>C394<br>C395         | 1-124-477-13   | ELECT  | 47MF                            | 10%<br>20%<br>5%  | 25V<br>25V<br>50V        | C461<br>C462                 | 1-163-119-00<br>1-163-031-11                 | CERANIC CHIP 120PF   | 5%                | 50V<br>50V               |
| C396<br>C397                 | 1-164-299-1<br>1-124-477-1                                   | L CERAMIC CHIP   | 0.22MF<br>47MF                  | 10%               | 25V<br>25V               | C463<br>C464<br>C465         | 1-163-031-11<br>1-164-299-11<br>1-163-097-00 | CERAMIC CHIP 0.01MF<br>CERAMIC CHIP 0.22MF<br>CERAMIC CHIP 15PF                  | 10%<br>5%<br>5%   | 50V<br>25V<br>50V        |
| C398<br>C399<br>C400         | 1-124-477-1  | 1 ELECT  | 47MF<br>47MF<br>0.01MF          | 20%<br>20%<br>10% | 25V<br>25V<br>50V        | C466<br>C467                 | 1-163-119-00                                 | CERAMIC CHIP 120PF   | 5%<br>5%          | 50V<br>50V               |
| C401<br>C402                 | 1-164-346-1  | 1 CERAMIC CHIP   | 1MF<br>47MF                     | 20%               | 16V<br>50V               | C469<br>C470<br>C471         | 1-163-037-11<br>1-163-243-11                 | CERAMIC CHIP 0.022MF   | 10%<br>5%<br>5%   | 25V<br>50V<br>50V        |
| C403<br>C406                 | 1-124-916-1  | 1 ELECT  | 22MF                            | 10%<br>20%        | 50V<br>50V               | C472                         | 1-163-031-1                                  | CERAMIC CHIP O.OIMF  | J. 16             | 50V                      |
| C407<br>C408                 | 1-124-477-1<br>1-164-232-1                                   |  | 47MF<br>0.01MF                  | 20%<br>10%        | 25V<br>50V               | C473                         |  | 1 CERAMIC CHIP 0.01MF<br>1 CERAMIC CHIP 0.01MF                                   |                   | 50V<br>50V               |

The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la secunte. Ne les remplacer que par une piece portant le numero specifie.

| K0000000000000000000000000000000000000 | * *************************************  | 22257  |  | Company of the control of      | - Condition                        |  |  |  |  |                                 |                                      |
|--|--|--|--|--------------------------------|------------------------------------|--|--|--|--|---------------------------------|--------------------------------------|
| REF.NO.                                | PART NO.   | DESCRIPTION  |  |                                | REMARK                             | REF.NO.                                      | PART NO.   | DESCRIPTION                                    |  |                                 | REMARK                               |
| C476<br>C477<br>C478<br>C479<br>C482   | 1-163-031-11<br>1-164-299-11<br>1-124-907-11<br>1-163-121-00<br>1-124-472-11   | CERAMIC CHIP<br>CERAMIC CHIP<br>ELECT<br>CERAMIC CHIP<br>ELECT               | 0.01MF<br>0.22MF<br>10MF<br>150PF<br>470MF       | 10%<br>20%<br>5%<br>20%        | 50V<br>25V<br>50V<br>50V<br>10V    | 1  | 1-124-667-11<br>1-126-163-11<br>1-106-375-12<br>1-126-336-11<br>1-130-736-11<br>1-124-907-11 |  | 10MF<br>4.7MF<br>0.022MF<br>220MF          |                                 | 50V<br>50V<br>100V<br>25V<br>50V     |
| C483<br>C484<br>C485<br>C486<br>C487   | 1-163-249-11<br>1-163-113-00<br>1-163-13-00<br>1-163-249-11<br>1-163-235-11<br>1-164-336-11<br>1-164-336-11<br>1-164-336-11<br>1-164-36-11 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP | 82PF<br>68PF<br>68PF<br>82PF<br>22PF             | 5%<br>5%<br>5%<br>5%<br>5%     | 50V<br>50V<br>50V<br>50V<br>50V    |  | 1-124-907-11<br>1-124-907-11<br>1-106-381-12<br>1-124-903-11<br>1-136-173-00<br>1-136-159-00 |  |  |                                 | 50V<br>50V<br>100V<br>50V<br>50V     |
| C488<br>C490<br>C491<br>C492<br>C493   | 1-163-097-00<br>1-164-336-11<br>1-164-336-11<br>1-164-336-11<br>1-104-760-11   | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP | 15PF<br>0.33MF<br>0.33MF<br>0.33MF<br>0.047MF    | 10%                            | 25V<br>25V<br>25V<br>25V<br>50V    | (501   | 1-136-159-00<br>1-163-249-11<br>1-124-907-11<br>1-124-903-11<br>1-106-367-00<br>1-136-499-11 |  |  |                                 | 50V<br>50V<br>50V<br>50V<br>100V     |
| C494<br>C495<br>C496<br>C497<br>C498   | 1-124-907-11<br>1-163-249-11<br>1-163-011-11<br>1-124-925-11   |  | 10MF<br>82PF<br>0.0015MF<br>2.2MF                | 20%                            | 50V<br>50V<br>50V<br>50V<br>50V    | C568<br>C569<br>C570<br>C571<br>C572         | 1-136-499-11<br>1-124-903-11<br>1-131-351-00<br>1-124-360-00<br>1-164-232-11<br>1-104-709-11 | ELECT<br>TANTALUM<br>ELECT<br>CERAMIC CHIP     | 1MF<br>4.7MF<br>1000MF<br>0.01MF           | 5%<br>20%<br>10%<br>20%<br>10%  | 50V<br>50V<br>25V<br>16V<br>50V      |
| C499<br>C500<br>C501<br>C502<br>C503   |  | CERAMIC CHIP   | 100PF  | 5%<br>5%                       | 25V<br>50V<br>50V<br>50V           | C573<br>C574<br>C575<br>C576                 | 1-136-173-00<br>1-249-383-11<br>1-163-031-11<br>1-102-244-00                                 | FILM<br>CARBON<br>CERAMIC CHIP<br>CERAMIC      | 0.47MF<br>1.5 5%<br>0.01MF                 | 5%<br>1/4W<br>10%               | 50V<br>F<br>50V<br>500V              |
| C504<br>C505<br>C506<br>C507<br>C508   | 1-124-902-00<br>1-126-375-11<br>1-130-495-00   | CERAMIC CHIP<br>ELECT<br>ELECT<br>MYLAR                                      | 0.068MF<br>560PF<br>0.47MF<br>100MF<br>0.1MF     | 5%<br>20%<br>20%<br>5%         | 50V<br>50V<br>50V<br>25V<br>50V    | C577<br>C578<br>C579<br>C580<br>C581<br>C582 | 1-124-907-11<br>1-136-540-11<br>1-126-804-11<br>1-136-756-11<br>1-124-927-11<br>1-102-002-00 |  |  | 20%<br>5%<br>20%<br>5%<br>20%   | 50V<br>200V<br>50V<br>200V<br>50V    |
|  | 1-124-935-11<br>1-108-700-11<br>1-124-902-00<br>1-126-096-11<br>1-129-718-00   |  | 470MF<br>0.047MF<br>0.47MF<br>10MF<br>0.022MF    |                                | 100V<br>200V<br>50V<br>25V<br>630V | C582<br>C583<br>C584<br>C585<br>C586         | 1-102-002-00<br>1-136-569-11<br>1-123-267-00<br>1-124-666-11<br>1-124-557-11<br>1-102-030-00 |  | 1.2MF<br>2.2MF<br>4.7MF<br>1000MF<br>330PF |                                 | 500V<br>200V<br>160V<br>250V<br>25V  |
| C515<br>C516<br>C517<br>C518<br>C519   | 1-163-809-11<br>1-102-030-00<br>1-163-024-00<br>1-107-995-51<br>1-163-017-00   | CERAMIC CHIP   | 0.0047MF   | 10%                            | 25V<br>500V<br>50V<br>160V<br>50V  | C588<br>C589<br>C590                         | 1-124-667-11<br>1-102-030-00<br>1-126-387-11   | ELECT<br>CERAMIC<br>ELECT                      | 10MF<br>330PF<br>2.2MF<br>0.015MF          | 10%<br>20%<br>10%<br>20%<br>10% | 500V<br>50V<br>500V<br>50V<br>200V   |
| C520<br>C521<br>C522<br>C523<br>C525   | 1-163-257-11<br>1-162-114-00<br>1-126-375-11<br>1-126-801-11<br>∆1-136-545-11  | CERAMIC CHIP<br>CERAMIC<br>ELECT<br>ELECT<br>FILM                            | 180PF<br>0.0047MF<br>100MF<br>1MF<br>0.0078MF    | 5%<br>20%<br>20%<br>3%         | 50V<br>2KV<br>25V<br>50V<br>2KV    | C593   | 1-106-371-00<br>1-123-932-00<br>1-165-319-11<br>1-163-229-11<br>1-126-336-11<br>1-124-478-11 | CERAMIC CHIL                                   | 4.7MF<br>P 0.1MF<br>P 12PF<br>220MF        | 20%<br>5%<br>20%                | 160V<br>50V<br>50V<br>25V<br>25V     |
| C526<br>C529<br>C530<br>C531<br>C532   | ▲ 1-162-116-91<br>1-104-789-51<br>1-124-120-11<br>1-124-477-11<br>1-163-031-11   | CERAMIC<br>ELECT<br>ELECT<br>ELECT<br>CERAMIC CHIP                           | 680PF<br>0.47MF<br>220MF<br>47MF<br>0.01MF       | 10%<br>20%<br>20%<br>20%       | 2KV<br>50V<br>25V<br>25V<br>50V    | C598<br>C599<br>C1300<br>C1301               | 1-164-346-11<br>1-164-346-11<br>1-126-157-11<br>1-124-477-11                                 | CERAMIC CHIL<br>CERAMIC CHIL<br>ELECT<br>ELECT | PIMF                                       | 20%<br>20%<br>20%               | 16V<br>16V<br>16V<br>25V<br>25V      |
| C533<br>C534<br>C537<br>C538<br>C539   | 1-102-212-00<br>1-123-948-00<br>1-124-913-11<br>1-106-367-00<br>1-130-480-00   | ELECT<br>MYLAR   | 820PF<br>22MF<br>470MF<br>0.01MF<br>0.0056MF     | 10%<br>20%<br>20%<br>10%<br>5% | 500V<br>250V<br>50V<br>100V<br>50V | C1302<br>C1304<br>C1305<br>C1306             | 1-163-133-00<br>1-124-477-11<br>1-124-477-11<br>1-163-031-11                                 | CERAMIC CHI<br>ELECT<br>ELECT<br>CERAMIC CHI   | P 470PF<br>47MF<br>47MF<br>P 0.01MF        | 20%<br>20%<br>20%               | 25 V<br>25 V<br>25 V<br>50 V<br>50 V |
| C540<br>C541<br>C542<br>C543<br>C544   | 1-163-133-00<br>1-124-927-11<br>1-106-351-00<br>1-106-351-00<br>1-106-367-00   | ELECT<br>MYLAR<br>MYLAR  | 470PF<br>4.7MF<br>0.0022MF<br>0.0022MF<br>0.01MF | 5%<br>20%<br>10%<br>10%<br>10% | 50V<br>50V<br>100V<br>100V<br>100V | C1311  | 1-124-907-11<br>1-163-257-11<br>1-163-031-11<br>1-124-477-11                                 | CERAMIC CHI<br>CERAMIC CHI<br>ELECT            | 10MF<br>P 180PF<br>P 0.01MF<br>47MF        | 20%<br>5%<br>20%                | 50V<br>50V<br>50V<br>25V             |
| C545<br>C546<br>C547<br>C548           | 1-102-212-00<br>1-163-119-00<br>1-163-251-11<br>1-102-212-00   | CERAMIC CHII   |  | 10%<br>5%<br>5%<br>10%         | 500V<br>50V<br>50V<br>500V         | C1313<br>C1314                               | 1-163-031-11<br>1-163-031-11<br>1-124-477-11<br>1-124-477-11                                 | CERAMIC CHI<br>ELECT                           | P 0.01MF<br>P 0.01MF<br>47MF<br>47MF       | 20%<br>20%                      | 50V<br>50V<br>25V<br>25V             |

|                                     |  | ~  |                                 |                       |                          |                                  |  |   |                         |                          |
|-------------------------------------|--|--|---------------------------------|-----------------------|--------------------------|----------------------------------|--|---|-------------------------|--------------------------|
|                                     |  |  |                                 |                       |                          | REF.NO.                          | PART NO.   | DESCRIPTION   |                         | REMARK                   |
| C1316 1-1<br>C1317 1-1              | 63-031-11<br>24-477-11                               | CERAMIC CHIP   | 0.01MF<br>47MF                  | 20%                   | 50V<br>25V               | 1                                |  | CERAMIC CHIP 0.01MF   |                         | 50V                      |
| C1318 1-1<br>C1319 1-1<br>C1320 1-1 | 24-477-11<br>63-037-11<br>24-477-11                  | CERAMIC CHIP<br>ELECT<br>ELECT<br>CERAMIC CHIP<br>ELECT                      | 47MF<br>0.022MF<br>47MF         | 20%<br>10%<br>20%     | 25V<br>25V<br>25V        | C1393<br>C1400<br>C1401<br>C1402 | 1-163-251-11<br>1-163-031-11<br>1-136-173-00<br>1-163-031-11 | CERAMIC CHIP 100PF CERAMIC CHIP 0.01MF FILM 0.47MF CERAMIC CHIP 0.01MF FILM 0.47MF  | 5%<br>5%                | 50V<br>50V<br>50V<br>50V |
| C1321 1-1<br>C1322 1-1<br>C1323 1-1 | 24-477-11<br>24-120-11                               | ELECT<br>ELECT   | 47MF<br>220MF                   | 20%<br>20%            | 25V<br>16V               | C1403                            | 1-136-173-00   | FILM 0.47MF   | 5%                      | 50V                      |
| C1324 1-1<br>C1325 1-1              | 63-031-11<br>63-031-11                               | ELECT ELECT ELECT CERAMIC CHIP CERAMIC CHIP                                  | 0.01MF<br>0.01MF                |                       | 50V<br>50V               | C1404<br>C1405<br>C1406<br>C1407 | 1-163-235-11<br>1-163-090-00<br>1-163-085-00                 | CERAMIC CHIP 0.22MF CERAMIC CHIP 22PF CERAMIC CHIP 7PF CERAMIC CHIP 2PF CERAMIC CHIP 68PF                                 | 5%<br>0.25PF<br>0.25PF  | 50V<br>50V<br>50V        |
| C1326 1-1<br>C1327 1-1<br>C1328 1-1 | 24-477-11<br>63-031-11<br>63-031-11                  | CERAMIC CHIP   | 47MF<br>0.01MF<br>0.03MF        | 20%                   | 20Y                      |                                  |  |   |                         | 50V<br>10V               |
| C1329 1-1<br>C1330 1-1              | 24-907-11<br>63-031-11                               | ELECT<br>CERAMIC CHIP<br>CERAMIC CHIP<br>ELECT<br>CERAMIC CHIP               | 10MF<br>0.01MF                  | 20%                   | 50V<br>50V               | C1501<br>C1502                   | 1-124-472-11<br>1-101-821-00                                 | ELECT 1000MF ELECT 470MF CERAMIC 0.0022MF CERAMIC CHIP 0.1MF ELECT 10MF   | 20%                     | 10V<br>500V              |
| C1331 1-1<br>C1332 1-1              | 24-477-11<br>24-477-11                               | ELECT<br>ELECT   | 47MF<br>47MF                    | 20%                   | 25V<br>25V               | C1503<br>C1504                   | 1-164-004-11<br>1-124-907-11                                 | CERAMIC CHIP O.1MF<br>ELECT 10MF  | 10%<br>20%              | 25V<br>50V               |
| C1333 1-1<br>C1334 1-1<br>C1335 1-1 | 24-477-11<br>63-227-11<br>24-477-11                  | ELECT<br>ELECT<br>ELECT<br>CERAMIC CHIP<br>ELECT                             | 47MF<br>10PF<br>47MF            | 20%<br>0.5PF<br>20%   | 25V<br>50V<br>25V        | C1505<br>C1506<br>C1507          | 1-136-165-00<br>1-124-119-00<br>1-163-141-00<br>1-124-927-11 | FILM 0.1MF ELECT 330MF CERAMIC CHIP 0.001MF ELECT 4.7MF ELECT 10MF  | 5%<br>20%<br>5%<br>20%  | 50V<br>16V<br>50V<br>50V |
| C1336 1-1<br>C1338 1-1              | 24-477-11<br>63-031-11                               | ELECT<br>CERAMIC CHIP  | 47MF<br>0.01MF                  | 20%                   | 25V                      |                                  |  |   |                         | 50V                      |
| C1340 1-1<br>C1341 1-1              | 63-031-11<br>63-031-11<br>63-275-11                  | ELECT<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP                        | 0.01MF<br>0.01MF<br>0.001MF     | 5%                    | 50V<br>50V<br>50V        | C1510<br>C1511<br>C1512<br>C1513 | 1-124-927-11<br>1-164-182-11<br>1-124-927-11<br>1-163-133-00 | ELECT 4.7MF CERAMIC CHIP 0.0033MF ELECT 4.7MF CERAMIC CHIP 470PF MYLAR 0.0033MF ELECT 10MF                                | 20%<br>10%<br>20%<br>5% | 50V<br>50V<br>50V<br>50V |
| C1342 1-1<br>C1343 1-1              | 02-963 <b>-</b> 00<br>63-113-00                      | CERAMIC CHIP   | 33PF<br>68PF                    | 5%<br>5%              | 50V<br>50V               | C1514                            | 1-130-477-00   | MYLAR 0.0033MF  | 5%<br>5%                | 50V                      |
| C1345 1-1<br>C1346 1-1              | 24-907-11<br>24-477-11                               | CERAMIC<br>CERAMIC CHIP<br>CERAMIC CHIP<br>ELECT<br>ELECT                    | 10MF<br>47MF                    | 20%                   | 50V<br>25V               | C1516<br>C1517<br>C1518          | 1-124-907-11<br>1-163-063-00<br>1-126-101-11<br>1-124-477-11 | ELECT 10MF CERAMIC CHIP 0.022MF ELECT 100MF ELECT 47MF CERAMIC CHIP 0.022MF CERAMIC CHIP 47PF NECTOR>                     | 10%<br>20%<br>20%       | 50V<br>50V<br>10V<br>16V |
| C1347 1-1<br>C1348 1-1<br>C1349 1-1 | 63-031-11<br>63-127-00<br>63-117-00                  | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>ELECT        | 0.01MF<br>270PF                 | 5%<br>5%              | 50V<br>50V<br>50V        | C1519<br>C1521                   | 1-163-037-11<br>1-163-243-11                                 | CERAMIC CHIP 0.022MF<br>CERAMIC CHIP 47PF   | 10%<br>5%               | 25V<br><b>50V</b>        |
| C1350 1-1<br>C1351 1-1              | 64-232-11<br>24-903-11                               | CERAMIC CHIP<br>ELECT  | 0.01MF<br>1MF                   | 10%                   | 50V<br>50V               |                                  |  |   |                         |                          |
| C1352 1-1<br>C1353 1-1              | 63-023-00<br>63-031-11                               | CERAMIC CHIP<br>CERAMIC CHIP   | 0.015MF<br>0.01MF               | 10%                   | 50V<br>50V               | CN101<br>CN102<br>CN104          | *1-573-979-11<br>*1-564-514-11<br>*1-564-506-11              | CONNECTOR, BOARD TO BOAR<br>PLUG, CONNECTOR 11P<br>PLUG, CONNECTOR 3P<br>CONNECTOR, BOARD TO BOAR                         | D 11P                   |                          |
| C1354 1-1<br>C1355 1-1<br>C1356 1-1 | 63-121-00<br>63-125-00<br>63-235-11                  | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP | 150PF<br>220PF<br>22PF          | 5%<br>5%<br>5%        | 50V<br>50V<br>50V        | CNZUI                            | *1-204-206-11  | PLUG, CHANGCIUR 3P  |                         |                          |
| C1357 1-<br>C1358 1-                | 24-119-00<br>24-477-11                               | ELECT<br>ELECT   | 330MF<br>47MF                   | 20%<br>20%            | 16V<br>25V               | CN302<br>CN303                   | *1-564-510-11<br>*1-564-515-11                               | PLUG, CONNECTOR 11P<br>PLUG, CONNECTOR 7P<br>PLUG, CONNECTOR 12P  |                         |                          |
| C1359 1-<br>C1360 1-<br>C1362 1-    | 163-263-11<br>164-161-11<br>163-249-11               | CERAMIC CHIE<br>CERAMIC CHIE<br>CERAMIC CHIE                                 | 9 330PF<br>9 0.0022NF<br>9 82PF | 5%<br>10%<br>5%       | 50V<br>50V<br>50V        | CN304<br>CN305                   | *1-564-509-11<br>*1-565-504-11                               | PLUG, CONNECTOR 11P PLUG, CONNECTOR 7P PLUG, CONNECTOR 12P PLUG, CONNECTOR 6P CONNECTOR, BOARD TO BOAR PLUG, CONNECTOR 8P | D 13P                   |                          |
| C1363 1-<br>C1364 1-                | 163-235-11<br>163-133-00                             | CERAMIC CHIE   | 22PF<br>470PF                   | 5%<br>5%              | 50V<br>50V               | CN402<br>CN501                   | *1-564-515-11<br>*1-580-798-11                               | PLUG, CONNECTOR 12P<br>CONNECTOR PIN (DY) 6P  |                         |                          |
| C1365 1-<br>C1366 1-<br>C1367 1-    | 163-227-11<br>124-477-11<br>124-477-11               | CERAMIC CHII<br>ELECT<br>ELECT   | ' 10PF<br>47MF<br>47MF          | 0.5PF<br>20%<br>20%   | 50V<br>25V<br>25V        | CN503                            | *1-573-964-11<br>*1-573-964-11                               | PIN, CONNECTOR (PC BOARD  |                         |                          |
| C1370 1~                            | 163-237-11<br>163-237-11                             | CERAMIC CHII<br>CERAMIC CHII   | 27PF                            | 5%<br>5%              | 50V<br>50V               | CN505                            | *1-564-508-11<br>*1-564-506-11<br>*1-564-506-11              | PLUG, CONNECTOR 5P<br>PLUG, CONNECTOR 3P<br>PLUG, CONNECTOR 3P  |                         |                          |
| C1372 1-<br>C1373 1-                | 124-477-11<br>124-477-11<br>124-477-11               | ELECT<br>ELECT<br>ELECT  | 47MF<br>47MF<br>47MF            | 20%<br>20%<br>20%     | 25V<br>25V<br>25V        |                                  | *1-535-419-00  | TAB, FASTEN (PCB)   |                         |                          |
| C1375 1-                            | 124-927-11   | ELECT  | 4.7MF                           | 20%                   | 50V                      |                                  |  | POSITION CIRCUIT BLOCK>   |                         |                          |
| C1380 1-<br>C1381 1-                | 163-097-00<br>163-101-00<br>163-101-00<br>124-443-00 | CERAMIC CHII   | P 22PF                          | 5%<br>5%<br>5%<br>20% | 50V<br>50V<br>50V<br>10V | CP301<br>CP302                   | 1-808-654-21   | MODULE, TRAP<br>MODULE, TRAP<br>MODULE<br>FILTER BLOCK, COM (CFB-4  | 1)                      |                          |
| C1383 1-                            | 124-477-11   | ELECT  | 47MF                            | 20%                   | 25V                      | -1.505                           |  |   | '                       |                          |
| C1385 1-                            | 163-038-00<br>163-031-11<br>163-031-11               | CERAMIC CHI  | P 0.01MF                        |                       | 25V<br>50V<br>50V        | D101                             | <di6<br>8-719-800-76</di6<br>                                | DDE><br>D10DE 1SS226  |                         |                          |
| -                                   |  |  |                                 |                       | -                        |                                  |  |   |                         |                          |

| REF.NO.                              | PART NO.   | DESCRIPTION  | REMARK | REF.NO.                                      | PART NO.   | DESCRIPTION  | REMARK |
|--------------------------------------|--|--|--------|--|--|--|--------|
| D102<br>D103<br>D104<br>D105<br>D107 | 8-719-800-76<br>8-719-045-70<br>8-719-800-76<br>8-719-800-76<br>8-719-800-76 | DIODE 1SS226 DIODE 1SV230TPH3 DIODE 1SS226 DIODE 1SS226 DIODE 1SS226           |        | D406<br>D407<br>D408                         | 8-719-404-46<br>8-719-404-46<br>8-719-404-46   | DIODE MAILO  |        |
| D109<br>D110<br>D112<br>D113<br>D114 | 8-719-801-78<br>8-719-404-46<br>8-719-404-46<br>8-719-158-07<br>8-719-404-46 | DIODE MA110<br>DIODE MA110<br>DIODE RD4.7SB                                    |        | D410<br>D411<br>D414<br>D415<br>D416<br>D417 | 8-719-404-46<br>8-719-404-46<br>8-719-801-78<br>8-719-801-78<br>8-719-801-78<br>8-719-801-78 | DIODE MA110  DIODE 1SS184  DIODE 1SS184  DIODE 1SS184                                    |        |
| D200<br>D300<br>D301<br>D302<br>D303 | 8-719-977-46<br>8-719-025-07<br>8-719-404-46<br>8-719-158-07<br>8-719-977-05 | DIODE 1SV232-TPH3<br>DIODE MA110<br>DIODE RD4.7SB                              |        | D418<br>D421<br>D422<br>D423                 | 8-719-801-78<br>8-719-404-46<br>8-719-404-46<br>8-719-800-76                                 | DIODE ISS184  DIODE MAI10 DIODE MAI10 DIODE ISS226                                       |        |
| D304<br>D305<br>D306<br>D307<br>D309 | 8-719-104-34   | DIODE 1SS184 DIODE 1SS226 DIODE 1S2836 DIODE MA110 DIODE MA110                 |        | D424<br>D425<br>D426<br>D427<br>D500<br>D501 | 8-719-800-76<br>8-719-158-07<br>8-719-404-46<br>8-719-404-46                                 | DIODE MA110 DIODE TSS226  DIODE RD4.7SB DIODE MA110 DIODE MA110 DIODE MA110 DIODE TSS.6B |        |
| D313<br>D314<br>D315                 | 8-719-104-34<br>8-719-045-70<br>8-719-801-78<br>8-719-404-46<br>8-719-404-46 | DIODE 1S2836<br>DIODE 1SV23OTPH3<br>DIODE 1SS184<br>DIODE MA110<br>DIODE MA110 |        | D502<br>D503<br>D504<br>D505<br>D506         | 8-719-979-80<br>8-719-404-46<br>8-719-901-83<br>8-719-028-72                                 | DIODE UF5406  DIODE MA110  DIODE ISS83  DIODE RGP02-17EL-6433  DIODE ERC06-15S           |        |
| D317<br>D318<br>D319<br>D320<br>D322 | 8-719-800-76<br>8-719-404-46<br>8-719-404-46                                 | DIODE 1SS226<br>DIODE ISS226<br>DIODE MA110<br>DIODE MA110                     |        | D507<br>D508<br>D509<br>D510<br>D512         | 8-719-800-76<br>8-719-800-76<br>8-719-404-46<br>8-719-302-43<br>8-719-979-80                 | 5 DIODE 1SS226<br>5 DIODE 1SS226<br>5 DIODE MA110<br>8 DIODE EL1Z<br>0 DIODE UF5406      |        |
| D323<br>D324<br>D325<br>D326<br>D327 | 8-719-801-78<br>8-719-045-70<br>8-719-104-34                                 | DIODE 1SY23OTPH3<br>DIODE 1SS184<br>DIODE 1SY23OTPH3<br>DIODE 1S2836           |        | D513<br>D514<br>D515<br>D516<br>D517         | 8-719-971-20<br>8-719-971-20<br>8-719-404-46<br>8-719-404-46                                 | DIODE MAIIO DIODE ERC38-06 DIODE ERC38-06 DIODE MAIIO DIODE MAIIO                        |        |
| D332<br>D333<br>D335<br>D336<br>D337 | 8-719-404-46<br>8-719-404-46<br>8-719-404-46<br>8-719-404-46<br>8-719-404-46 | DIODE MA110<br>DIODE MA110<br>DIODE MA110<br>DIODE MA110                       |        | D518<br>D519<br>D520<br>D521<br>D522         | 8-719-801-78<br>8-719-901-33<br>8-719-977-05   | 6 DIODE NAI10<br>8 DIODE ISS184<br>8 DIODE ISS133<br>5 DIODE DTZ6,2                      |        |
| D338<br>D339<br>D341<br>D344<br>D345 | 8-719-158-07<br>8-719-801-78   | DIODE MA110  |        | D523<br>D524<br>D525<br>D526<br>D527         | 8-719-404-46<br>8-719-200-02<br>8-719-200-02<br>8-719-404-46                                 | 6 DIODE MAIIO<br>2 DIODE 10E-2<br>2 DIODE 10E-2<br>6 DIODE MAIIO<br>2 DIODE 10E-2        |        |
| D346<br>D347<br>D348<br>D349<br>D350 | 8-719-104-34<br>8-719-104-34<br>8-719-800-76<br>8-719-800-76<br>8-719-800-76 | DIODE 1S2836<br>DIODE 1SS226<br>DIODE 1SS226                                   |        | D528<br>D529<br>D530<br>D531<br>D532         |  | 6 DIODE RH-1A<br>2 DIODE 10E-2<br>6 DIODE RH-1A<br>2 DIODE DTZ11B                        |        |
| D351<br>D352<br>D353<br>D354<br>D355 | 8-719-800-76<br>8-719-800-76<br>8-719-800-76<br>8-719-800-76                 | DIODE 188226<br>DIODE 188226<br>DIODE 188226                                   |        | D533<br>D534<br>D535<br>D536<br>D537         | 8-719-302-43<br>8-719-404-46<br>8-719-404-46<br>8-719-800-76<br>8-719-800-76                 | 3 DIODE EL12 6 DIODE MAIIO 6 DIODE MAIIO 6 DIODE ISS226                                  |        |
| D360<br>D361<br>D362<br>D363<br>D364 | 8-719-104-34<br>8-719-104-34<br>8-719-158-40<br>8-719-158-40<br>8-719-104-34 | DIODE 1S2836<br>DIODE RD1OSB1<br>DIODE RD1OSB1                                 |        | D538<br>D539<br>D540<br>D541<br>D542         | 8-719-800-76<br>8-719-404-46<br>8-719-404-46<br>8-719-801-78                                 | 6 DIODE 188226<br>6 DIODE MAIIO<br>6 DIODE MAIIO   |        |
| D365<br>D381<br>D401<br>D404         | 8-719-404-46<br>8-719-404-46<br>8-719-404-46<br>8-719-800-76                 | DIODE MA110<br>DIODE MA110   |        |  | <di< td=""><td>ELAY LINE&gt; 1 DELAY LINE, Y</td><td></td></di<>                             | ELAY LINE> 1 DELAY LINE, Y   |        |
|                                      |  |  |        |  |  |  |        |

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark  $ilde{\Delta}$  are critical for safety.
Replace only with part number specified.

| REF.NO.                                  | PART NO.  | DESCRIPTION  | REMARK | REF.NO.              | PART NO.  | DESCRIPTION                                  |                          | REMARK |
|--|---|--|--------|----------------------|---|--|--------------------------|--------|
| DL301<br>DL401                           | 1-415-632-11<br>1-409-547-11  | DELAY LINE, Y DELAY LINE   |        | 10506                | 8-759-009-51  | IC MC14538BF                                 |                          |        |
|  | <f11.1< td=""><td>TEB&gt;</td><td></td><td>1C507<br/>1C508</td><td>8-759-100-60<br/>8-752-053-21<br/>8-759-998-98</td><td>IC UPC1377C<br/>IC CXA1211M</td><td></td><td></td></f11.1<> | TEB>   |        | 1C507<br>1C508       | 8-759-100-60<br>8-752-053-21<br>8-759-998-98              | IC UPC1377C<br>IC CXA1211M                   |                          |        |
| FL300<br>FL401                           | 1-236-547-11  | TRAP, LC   |        | 10510                | 8-759-998-98<br>8-759-009-51                              | IC MC14538BF                                 |                          |        |
| 1.17401                                  | 1-230-304-11  | FILIER, DANN PASS  |        | 1                    | <0011   | L>   |                          |        |
| I € 101                                  | <ic></ic>   | IC HPN78013VCM~VO3   |        | L101<br>L102         | 1-408-609-41<br>1-408-417-00<br>1-410-478-11              | INDUCTOR INDUCTOR                            | 33UH<br>47UH             |        |
| I C 102<br>I C 103<br>I C 104<br>I C 105 | 8-759-168-37<br>8-759-008-48<br>8-759-262-59<br>8-759-196-70  | DESCRIPTION  |        | L105<br>L300         | 1-410-482-31<br>1-410-478-11                              | INDUCTOR<br>INDUCTOR                         | 47UH<br>100UH<br>47UH    |        |
| I C106                                   | 8-759-196-70  | IC M62358FP-E1   |        | L302<br>L303         | 1-408-411-00<br>1-412-008-31<br>1-408-416-00              | INDUCTOR INDUCTOR CHIP INDUCTOR              | 150H<br>150H<br>390H     |        |
| I C 107<br>I C 108<br>I C 109            | 8-759-196-70<br>8-759-042-02<br>8-759-196-70  | 10 M62358FP-E1<br>10 S-80743AL-A7-S<br>10 M62358FP-E1            |        | L304<br>L305         | 1-412-008-31<br>1-410-196-11                              | INDUCTOR CHIP                                | 15UH<br>2.2UH            |        |
| I C 1 1 1                                | 8-759-196-70<br>8-759-009-22  | 1C M62358FP-E1   |        | L306<br>L307         | 1-408-416-00<br>1-408-411-00<br>1-410-466-41              | INDUCTOR INDUCTOR                            | 39UH<br>15UH<br>4.7UH    |        |
| I C200<br>I C301                         | 8-759-420-04<br>8-752-053-21  | IC AN5265<br>IC CXAI211M   |        | L309<br>L311         | 1-410-470-11<br>1-410-470-11                              | INDUCTOR<br>INDUCTOR                         | 10UH<br>10UH             |        |
| I C303                                   | 8-752-056-67  | IC CXA1214P  |        | L312<br>L314         | 1-412-011-31<br>1-412-011-31                              | INDUCTOR CHIP                                | 27UH<br>27UH             |        |
| I C304<br>I C305<br>I C306               | 8-759-509-19<br>8-759-631-08<br>8-759-711-32  | IC XRU4053BF-E2<br>IC M51279FP<br>IC NJM2245M                    |        | L316<br>L317<br>L319 | 1-412-011-31<br>1-410-090-41<br>1-408-421-00              | INDUCTOR CHIP<br>INDUCTOR<br>INDUCTOR        | 27UH<br>18MMH<br>100UH   |        |
| I C309<br>I C310                         | 8-759-711-32<br>8-759-509-19  | 1C NJM2245M<br>1C XRU4053BF-E2                                   |        | L320                 | 1-410-478-11  | INDUCTOR                                     | 47UH                     |        |
| I C311<br>I C312                         | 8-759-509-05<br>8-759-711-32  | IC XRU4066BF<br>IC NJM2245M                                      |        | L402<br>L403         | 1-410-216-31<br>1-410-216-31                              | INDUCTOR INDUCTOR CHIP INDUCTOR CHIP         | 47UH<br>100UH<br>100UH   |        |
| I C313<br>I C314<br>I C315               | 8-759-501-21<br>8-759-501-21<br>8-759-509-19  | IC MM1149XF<br>IC MM1149XF<br>IC XRIJ4053RF-R2                   |        | 1404                 | 1-410-216-31<br>1-408-419-00                              | INDUCTOR CHIP                                | 100UH<br>68UH            |        |
| I C316                                   | 8-759-048-09  | IC MM1148XF  |        | L406<br>L407         | 1-408-419-00<br>1-408-413-00                              | INDUCTOR<br>INDUCTOR                         | 68UH<br>22UH             |        |
| I C318<br>I C320                         | 8-759-509-57<br>8-759-501-21  | IC XRU4584BF<br>IC MM1149XF                                      |        | L408<br>L409         | 1-410-214-31  | INDUCTOR INDUCTOR CHIP                       | 22UH<br>68UH             |        |
| I C321                                   | 8-759-501-21<br>8-759-501-21  | 1C MM1149XF  |        | L500<br>L501         | 1-459-155-00<br>-1-407-365-00<br>1-407-365-00             | COIL (WITH COR<br>COIL, CHOKE<br>COIL, CROKE | E) 45UH                  |        |
| I C323<br>I C324                         | 8-759-501-21<br>8-759-501-21<br>8-759-501-21  | IC MM1149XF<br>IC MM1149XF                                       |        | L503<br>L504         | 1-410-093-11<br>1-410-666-31                              | INDUCTOR<br>INDUCTOR                         | 33MMH<br>18UH            |        |
| i C326                                   | 8-759-998-96  | IC LM324D  |        | L505<br>L507         | 1-410-671-31<br>1-410-686-11                              | INDUCTOR<br>INDUCTOR                         | 47UH<br>1MMH             |        |
| I C350<br>I C401<br>I C402               | 8-759-100-96<br>8-759-196-69<br>8-752-053-21  | IC UPC4558G2<br>IC BA7655AF-E2<br>IC CXA1211M                    |        | L508<br>L509         | 1-412-530-31<br>1-459-075-00<br>1-459-106-00              | INDUCTOR COIL, DYNAMIC COIL, DUST COR        | 27UH<br>CONVERSION CHOKE |        |
| I C403<br>I C404                         | 8-759-509-05<br>8-752-052-62  | IC XRU4066BF<br>IC CXA1478S                                      |        | L512 A               | 1-459-155-00  | COIL (WITH COR                               | E) 45UH                  |        |
| I C406                                   | 8-759-998-98  | IC LM358D  |        | 1 6314               | 1 437 104 00  | COIL, DUST COR<br>COIL, DUST COR             | 3.9MMH<br>E<br>E         |        |
| I C407<br>I C408<br>I C409               |   | IC XRU4066BF<br>IC XRA10393F<br>IC LM324D                        |        | L516 A               |   | COIL, HORIZONT                               | AL LINEARITY             |        |
| I C410                                   | 8-759-932-64  | 1C BU4052BF  |        | 11(3                 |   |  | 680UH                    |        |
| I C411<br>I C412<br>I C413<br>I C500     | 8-759-008-92<br>8-759-509-19<br>8-759-509-19<br>8-749-010-07  | IC MC14024BF<br>IC XRU4053BF-E2<br>IC XRU4053BF-E2<br>IC H8D7248 |        | NL500                | <neo<br>1-519-526-11</neo<br>                             | N LAMP><br>LAMP, NEON                        |                          |        |
| I C502<br>I C503                         |   | IC MC14538BF   |        | !<br>!<br>!          | <tra< td=""><td>NS1STOR&gt;</td><td></td><td></td></tra<> | NS1STOR>                                     |                          |        |
| I C504<br>I C505                         |   | IC CXA1211M<br>IC XRA17812T                                      |        | Q101<br>Q102         |   | TRANSISTOR DTC<br>TRANSISTOR 2SA             |                          |        |

|   |  |  |        |                                      |  |   | <del></del> - |
|---|--|--|--------|--------------------------------------|--|---|---------------|
| REF.NO.                                   | PART NO.   | DESCRIPTION  | REMARK | REF.NO.                              | PART NO.   | DESCRIPTION   | REMARK        |
| Q103<br>Q104<br>Q105<br>Q107<br>Q108      | 8-729-216-22<br>8-729-907-26<br>8-729-901-06<br>8-729-901-06<br>8-729-120-28 | TRANSISTOR 2SA1162-G TRANSISTOR DTA144EK TRANSISTOR DTA144EK TRANSISTOR DTA144EK TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSI |        | Q354<br>Q355<br>Q356<br>Q357<br>Q358 | 8-729-120-28<br>8-729-120-28<br>8-729-901-01<br>8-729-120-28<br>8-729-120-28 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6                                   |               |
| Q109<br>Q110<br>Q111<br>Q112<br>Q113      | 8-729-120-28<br>8-729-120-28<br>8-729-901-06<br>8-729-120-28<br>8-729-120-28 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTA144EK TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6  |        | Q359<br>Q360<br>Q361<br>Q362<br>Q363 | 8-729-216-22<br>8-729-907-26<br>8-729-901-06<br>8-729-120-28<br>8-729-120-28 | TRANSISTOR 2SA1162-G  TRANSISTOR 1MX1 TRANSISTOR DTA144EK TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6   |               |
| Q114<br>Q200<br>Q201<br>Q300<br>Q301      | 8-729-119-78<br>8-729-140-96<br>8-729-120-28<br>8-729-120-28<br>8-729-120-28 | TRANSISTOR 2SC2785-HFE TRANSISTOR 2SD774-34 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6  |        | Q364<br>Q365<br>Q366<br>Q367<br>Q368 | 8-729-901-01<br>8-729-901-01<br>8-729-216-22<br>8-729-216-22<br>8-729-216-22 | TRANSISTOR DTC144EK  TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G   |               |
| Q302<br>Q303<br>Q304<br>Q305<br>Q306      | 8-729-216-22<br>8-729-120-28<br>8-729-120-28<br>8-729-120-28<br>8-729-120-28 | TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6   |        | Q369<br>Q372<br>Q376<br>Q377<br>Q378 | 8-729-901-06<br>8-729-901-01<br>8-729-901-01<br>8-729-901-01<br>8-729-901-06 | TRANSISTOR DTA144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTA144EK   |               |
| Q307<br>Q308<br>Q309<br>Q310<br>Q311      | 8-729-120-28<br>8-729-120-28<br>8-729-216-22<br>8-729-216-22<br>8-729-216-22 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G   |        | Q401<br>Q402<br>Q403<br>Q404         | 8-729-120-28<br>8-729-120-28<br>8-729-901-01<br>8-729-216-22                 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G   |               |
| Q312<br>Q313<br>Q314<br>Q315<br>Q316      | 8-729-120-28<br>8-729-216-22<br>8-729-901-06<br>8-729-216-22<br>8-729-120-28 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR DTA144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6  |        | Q406<br>Q407<br>Q408<br>Q409         | 8-729-120-28<br>8-729-120-28<br>8-729-216-22<br>8-729-216-22                 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G  |               |
| Q318<br>Q319<br>Q320<br>Q321<br>Q322      | 8-729-216-22<br>8-729-120-28<br>8-729-119-78<br>8-729-120-28<br>8-729-120-28 | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SC1623-L5L6<br>TRANSISTOR 2SC2785-HFE<br>TRANSISTOR 2SC1623-L5L6<br>TRANSISTOR 2SC1623-L5L6  |        | Q411<br>Q412<br>Q413<br>Q414         | 8-729-216-22<br>8-729-141-53<br>8-729-216-22                                 | TRANSISTOR 2SC1623-1.5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SK94-X2X3X4 TRANSISTOR 2SA1162-G  |               |
| Q323<br>Q324<br>Q325<br>Q326<br>Q327      | 8-729-901-01<br>8-729-901-01<br>8-729-120-28<br>8-729-120-28<br>8-729-216-22 | TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G   |        | Q415<br>Q416<br>Q417<br>Q418<br>Q419 | 8-729-216-22<br>8-729-216-22<br>8-729-16-22<br>8-729-16-22<br>8-729-216-22   | TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G |               |
| Q328<br>Q329<br>Q330<br>Q331<br>Q332      | 8-729-141-53<br>8-729-141-53<br>8-729-216-22<br>8-729-216-22<br>8-729-901-01 | TRANSISTOR 2SK94-X2X3X4 TRANSISTOR 2SK94-X2X3X4 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK  |        | Q421<br>Q422<br>Q423<br>Q424<br>Q424 | 8-729-901-01<br>8-729-120-28<br>8-729-120-28<br>8-729-901-01                 | TRANSISTOR DTC144EK  TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK TRANSISTOR DTC144EK  |               |
| Q 333<br>Q 334<br>Q 335<br>Q 336<br>Q 337 | 8-729-120-28<br>8-729-216-22<br>8-729-120-28<br>8-729-109-44<br>8-729-120-28 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SK94-X4 TRANSISTOR 2SC1623-L5L6   |        | Q428<br>Q429<br>Q430<br>Q431         | 8-729-901-01<br>8-729-901-01<br>8-729-216-22<br>8-729-120-28<br>8-729-120-28 | TRANSISTOR 25A1162-G  |               |
| Q338<br>Q339<br>Q341<br>Q342<br>Q343      | 8-729-120-28<br>8-729-216-22<br>8-729-920-39<br>8-729-920-39<br>8-729-920-39 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR IMTIUS TRANSISTOR IMTIUS TRANSISTOR IMTIUS TRANSISTOR IMTIUS   |        | Q432<br>Q433<br>Q434<br>Q435         | 8-729-120-28<br>8-729-901-01<br>8-729-120-28<br>8-729-901-01                 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK   |               |
| Q345<br>Q346<br>Q347<br>Q348<br>Q349      | 8-729-120-28<br>8-729-120-28<br>8-729-901-01<br>8-729-216-22<br>8-729-216-22 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G  |        | Q436<br>Q437<br>Q438<br>Q439<br>Q440 | 8-729-901-01<br>8-729-120-28<br>8-729-216-22<br>8-729-120-28                 | TRANSISTOR 2SC1623-L5L6<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SC1623-L5L6  |               |
| Q350<br>Q351<br>Q352<br>Q353              | 8-729-216-22<br>8-729-120-28<br>8-729-120-28<br>8-729-120-28                 | TRANSISTOR 2SC1623-L5L6  |        | Q441<br>Q442<br>Q443<br>Q444         | 8-729-141-53<br>8-729-120-28<br>8-729-216-22                                 | TRANSISTOR 2SK94-X2X3X4   |               |

| REF.NO.                                      | PART NO.  | DESCRIPTION  |   | _                             |   | REMARK | REF.NO.                              | PART NO.   | DESCRIPTION   |                                      |  | R<br>-                                    | EMARK |
|--|---|--|---|-------------------------------|---|--------|--------------------------------------|--|---|--------------------------------------|--|---|-------|
| Q445<br>Q500<br>Q501<br>Q502<br>Q503         | 8-729-901-01<br>8-729-216-22<br>8-729-800-35<br>8-729-119-80<br>8-729-313-42  | TRANSISTOR DTC TRANSISTOR 2SA TRANSISTOR 2SD TRANSISTOR 2SC TRANSISTOR 2SD             | 144EK<br>1162-G<br>1397-C<br>2688-L<br>1134-C | A<br>K                        |   |        | R134<br>R135<br>R136<br>R137         | 1-216-065-00<br>1-216-085-00<br>1-216-295-00<br>1-216-065-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 4.7K<br>33K<br>0<br>4.7K             | 5%<br>5%<br>5%                         | 1/10W<br>1/10W<br>1/10W<br>1/10W          |       |
| Q505<br>Q506<br>Q507<br>Q508<br>Q509         | 8-729-120-28<br>8-729-120-28<br>8-729-120-28<br>8-729-216-22<br>8-729-901-06  | TRANSISTOR 2SC<br>TRANSISTOR 2SC<br>TRANSISTOR 2SC<br>TRANSISTOR 2SA<br>TRANSISTOR DTA | 1623-L<br>1623-L<br>1623-L<br>1162-G<br>144EK | 5L6<br>5L6<br>5L6             |   |        | R138<br>R139<br>R140<br>R141<br>R142 | 1-216-295-00<br>1-216-295-00<br>1-216-033-00<br>1-216-085-00<br>1-216-295-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE             | 0<br>0<br>220<br>33K<br>0            | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |       |
| Q510<br>Q511<br>Q512<br>Q513<br>Q514<br>Q515 | 8-729-120-28<br>8-729-195-82<br>8-729-122-03<br>8-729-901-00  | TRANSISTOR DIC<br>TRANSISTOR 2SC<br>TRANSISTOR 2SC<br>TRANSISTOR DTC                   | 1623-L<br>2958-L<br>1220A-<br>124EK           | 5L6<br>P                      |   |        | R144<br>R145<br>R147<br>R148         | 1-216-295-00<br>1-216-295-00<br>1-216-295-00<br>1-216-295-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 0 0 0                                | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |       |
| Q515<br>Q517<br>Q518<br>Q519<br>Q520<br>Q522 | 8-729-169-02<br>8-729-901-06<br>8-729-901-01<br>8-729-901-01<br>8-729-905-67  | TRANSISTOR 2SC TRANSISTOR DTA TRANSISTOR DTC TRANSISTOR DTC TRANSISTOR 2SD             | 2690A-<br>144EK<br>144EK<br>144EK<br>1944-K   | Q                             |   |        | R149<br>R150<br>R151<br>R152<br>R153 | 1-216-065-00<br>1-216-295-00<br>1-216-061-00<br>1-216-295-00<br>1-216-295-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE             | 4.7K<br>0<br>3.3K<br>0               | 5%<br>5%<br>5%<br>5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |       |
| Q522<br>Q523<br>Q524<br>Q525<br>Q526         | 8-729-120-28<br>8-729-120-28<br>8-729-119-78<br>8-729-119-76<br>8-729-216-22  | TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SA TRANSISTOR 2SA             | 1623-L<br>1623-L<br>2785-H<br>1175-H          | 5L6<br>5L6<br>FE<br>FE        |   |        | R154<br>R155<br>R156<br>R157<br>R158 | 1-216-065-00<br>1-249-434-11<br>1-216-295-00<br>1-216-065-00<br>1-216-295-00 | METAL GLAZE<br>CARBON<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE      | 4.7K<br>27K<br>0<br>4.7K<br>0        | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/4W<br>1/10W<br>1/10W<br>1/10W  |       |
| Q527   | 8-729-120-28<br><res< td=""><td>TRANSISTOR 250</td><td>1623-L</td><td>5L6</td><td></td><td></td><td>R159<br/>R160<br/>R162<br/>R163<br/>R164</td><td>1-216-063-00<br/>1-216-061-00<br/>1-216-065-00<br/>1-216-065-00<br/>1-216-067-00</td><td>METAL GLAZE<br/>METAL GLAZE<br/>METAL GLAZE<br/>METAL GLAZE<br/>METAL GLAZE</td><td>3.9K<br/>3.3K<br/>4.7K<br/>4.7K<br/>5.6K</td><td>5%<br/>5%<br/>5%<br/>5%</td><td>1/10W<br/>1/10W<br/>1/10W<br/>1/10W<br/>1/10W</td><td></td></res<> | TRANSISTOR 250   | 1623-L  | 5L6                           |   |        | R159<br>R160<br>R162<br>R163<br>R164 | 1-216-063-00<br>1-216-061-00<br>1-216-065-00<br>1-216-065-00<br>1-216-067-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 3.9K<br>3.3K<br>4.7K<br>4.7K<br>5.6K | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |       |
| JR122<br>JR123<br>JR302<br>R101<br>R102      | 1-216-295-00<br>1-216-295-00<br>1-216-295-00<br>1-216-025-00<br>1-216-025-00  | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE                            | 0<br>0<br>0<br>100<br>100                     | 5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R165<br>R167<br>R168<br>R169         | 1-216-295-00<br>1-216-061-00<br>1-216-085-00<br>1-216-107-00<br>1-216-295-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 0<br>3.3K<br>33K<br>270K             | 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |       |
| R103<br>R104<br>R105<br>R106<br>R107         | 1-216-025-00<br>1-216-073-00<br>1-216-059-00<br>1-216-065-00<br>1-216-065-00  | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE                            | 100<br>10K<br>2.7K<br>4.7K<br>4.7K            | 5%<br>5%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R171<br>R172<br>R173<br>R174         | 1-216-031-00<br>1-216-295-00<br>1-216-295-00<br>1-216-295-00                 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE                         | 180<br>0<br>0                        | 555555                                 | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |       |
| R108<br>R109<br>R110<br>R111<br>R112         | PART NO   | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 4.7K<br>4.7K<br>10K<br>0                      | 5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R177<br>R180<br>R181<br>R183         | 1-216-065-00<br>1-216-295-00<br>1-216-065-00<br>1-216-295-00<br>1-216-295-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE             | 4.7K<br>0<br>4.7K<br>0               | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |       |
| R113<br>R114<br>R115<br>R116<br>R117         | 1-216-085-00<br>1-216-295-00<br>1-216-295-00<br>1-218-761-11<br>1-216-089-91  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL CHIP<br>METAL GLAZE                 | 33K<br>0<br>0<br>240K<br>47K                  | 5%<br>5%<br>5%<br>0.50%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R185<br>R186<br>R187<br>R188<br>R189 | 1-216-073-00<br>1-216-295-00<br>1-216-061-00<br>1-216-295-00<br>1-216-073-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 10K<br>0<br>3.3K<br>0<br>10K         | 5%<br>5%<br>5%<br>5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |       |
| R118<br>R119<br>R120<br>R121<br>R122         | 1-216-295-00<br>1-216-689-11<br>1-216-295-00<br>1-216-295-00<br>1-216-295-00  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 0<br>39K<br>0<br>0<br>0                       | 5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R190<br>R192<br>R193<br>R194<br>R195 | 1-216-049-00<br>1-216-073-00<br>1-216-295-00<br>1-216-295-00<br>1-216-071-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 1K<br>10K<br>0<br>0<br>8.2K          | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |       |
| R123<br>R124<br>R125<br>R126<br>R127         | 1-216-295-00<br>1-216-295-00<br>1-216-295-00<br>1-216-295-00<br>1-216-295-00  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 0<br>0<br>0<br>0                              | 5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R197<br>R198<br>R199<br>R200<br>R201 | 1-216-061-00<br>1-216-295-00<br>1-216-295-00<br>1-216-684-11<br>1-216-049-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL CHIP<br>METAL GLAZE  | 3.3K<br>0<br>0<br>24K<br>1K          | 5%<br>5%                               | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |       |
| R128<br>R129<br>R130<br>R131<br>R132         | 1-216-295-00<br>1-216-295-00<br>1-216-099-00<br>1-216-295-00<br>1-216-065-00  | METAL GLAZE  | 0<br>0<br>120K<br>0<br>4.7K                   | 5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R202<br>R203<br>R204<br>R205<br>R206 | 1-212-857-00<br>1-260-095-11<br>1-260-072-11<br>1-216-647-11<br>1-216-073-00 | FUSIBLE<br>CARBON<br>CARBON<br>METAL CHIP                               | 10<br>470<br>4.7<br>680<br>10K       | 5%<br>5%<br>5%                         | 1/4W F<br>1/2W<br>1/2W<br>1/10W<br>1/10W  |       |
| R133   | 1-216-091-00  | METAL GLAZE  | 56K   | 5%                            | 1/10W                                     |        | 1                                    | 1 240 010 00   | HULAL VLACE   | 104                                  | 110                                    | 1/ 1/17                                   |       |

|                                      |  |   |                                     |                               |   |        |  | I  | _                        | - 1  |   |  |   | <del> ,</del> |
|--------------------------------------|--|---|-------------------------------------|-------------------------------|---|--------|--|--|--------------------------|--|---|--|---|---------------|
| REF.NO.                              | PART NO.   | DESCRIPTION   |                                     |                               |   | REMARK | REF.NO.                                      | PART NO.   |                          | DESCRIPTION  |   |  |   | REMARK        |
| R207<br>R208<br>R209<br>R210<br>R211 | 1-216-065-00<br>1-216-065-00<br>1-216-073-00<br>1-216-061-00<br>1-249-393-11 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>CARBON      | 4.7K<br>4.7K<br>10K<br>3.3K         | 5%<br>5%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/4W  |        | R364<br>R366<br>R367                         | 1-216-113-<br>1-216-113-<br>1-216-065-<br>1-216-051-<br>1-216-049-               | -00<br>-00<br>-00        | METAL GLAZE<br>METAL GLAZE   | 470K<br>4.7K<br>1.2K                                | 5%<br>5%<br>5%                         | 1/10W<br>1/10W<br>1/10W<br>1/10W          |               |
| R237<br>R301<br>R302<br>R303<br>R304 | 1-216-089-91<br>1-216-025-00<br>1-216-025-00<br>1-216-025-00<br>1-216-025-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 47K<br>100<br>100<br>100<br>100     | 5%<br>5%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R371<br>R372<br>R373<br>R374                 | 1-216-069-<br>1-216-053-<br>1-216-645-<br>1-216-647-                             | -00<br>-00<br>-11<br>-11 | METAL CHIP   | 680   | 5%<br>0.50%<br>0.50%                   | 1/10W                                     |               |
| R305<br>R306<br>R307<br>R308<br>R311 | 1-216-295-00<br>1-216-295-00<br>1-216-115-00<br>1-216-065-00<br>1-216-055-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 0<br>0<br>560K<br>4.7K<br>1.8K      | 5%<br>5%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R376<br>R378<br>R379                         | 1-216-069-<br>1-216-065-   | -00<br>-00<br>-00        | METAL GLAZE  | 1.5K<br>390K<br>390K<br>6.8K<br>4.7K<br>39K<br>270K |  | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |               |
| R312<br>R313<br>R314<br>R315<br>R316 | 1-216-073-00<br>1-216-649-11<br>1-216-099-00<br>1-216-099-00<br>1-216-049-00 | METAL GLAZE<br>METAL CHIP<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  | 10K<br>820<br>120K<br>120K<br>1K    | 5%<br>0.50%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R382<br>R383<br>R384<br>R385                 | 1-216-689-<br>1-216-107-<br>1-216-061-<br>1-216-073-<br>1-216-065-<br>1-216-029- | -00<br>-00<br>-00        | METAL GLAZE  | 270K<br>3.3K<br>10K<br>4.7K<br>150<br>220           |  | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |               |
| R317<br>R318<br>R319<br>R320<br>R321 | 1-216-057-00<br>1-216-049-00<br>1-216-069-00<br>1-216-057-00<br>1-216-051-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 2.2K<br>1K<br>6.8K<br>2.2K<br>1.2K  | 5%<br>5%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R388<br>R389<br>R391<br>R393                 | 1-216-033-<br>1-216-645-<br>1-216-113-<br>1-216-073-<br>1-216-083-               | -00<br>-11<br>-00<br>-00 | METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE   | 560   | 0.50%<br>5%<br>5%<br>5%<br>5%          | 1/10W                                     |               |
| R322<br>R323<br>R324<br>R325<br>R326 | 1-216-035-00<br>1-216-109-00<br>1-216-101-00<br>1-216-037-00<br>1-216-033-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 270<br>330K<br>150K<br>330<br>220   |                               | 1/10W<br>1/10W                            |        | R395<br>R396<br>R397<br>R398<br>R399         | 1-216-113-<br>1-216-113-<br>1-216-113-<br>1-216-105-<br>1-216-111-               | -11<br>-00<br>-00<br>-00 | METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE   | 470K<br>470K<br>470K<br>220K<br>390K<br>1.5K        | 0.50%                                  | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |               |
| R328<br>R329<br>R330<br>R331<br>R332 | 1-216-121-00<br>1-216-055-00<br>1-216-089-91<br>1-216-093-00<br>1-216-097-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 1M<br>1.8K<br>47K<br>68K<br>100K    | 5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R401<br>R402<br>R403<br>R404                 | 1-216-053-<br>1-216-053-<br>1-216-069-<br>1-216-029-<br>1-216-083-               | -00<br>-00<br>-00        | METAL GLAZE METAL GLAZE NETAL GLAZE NETAL GLAZE  | 1.5K<br>1.5K<br>6.8K<br>150<br>27K<br>33K           |  | 1/10W<br>1/10W<br>1/10W<br>1/10W          |               |
| R333<br>R334<br>R335<br>R336<br>R337 | 1-216-097-00<br>1-216-093-00<br>1-216-083-00<br>1-216-065-00<br>1-216-073-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 100K<br>68K<br>27K<br>4.7K<br>10K   | 5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R407<br>R408<br>R410<br>R411<br>R412<br>R413 | 1-216-085-<br>1-216-689-<br>1-216-069-<br>1-216-033-                             | -00<br>-11<br>-00<br>-00 | METAL GLAZE  METAL CHIP  METAL GLAZE  METAL GLAZE  | 39K   | 0.50%<br>5%<br>5%<br>5%<br>0.50%       | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |               |
| R338<br>R339<br>R340<br>R341<br>R342 | 1-216-091-00<br>1-216-071-00<br>1-216-089-91<br>1-216-673-11<br>1-216-065-00 | METAL GLAZE   | 56K<br>8.2K<br>47K<br>8.2K<br>4.7K  | 5%<br>5%<br>5%<br>0.50%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | DA16   | 1-216-089-<br>1-216-668-<br>1-216-113-<br>1-216-665-<br>1-216-667-               | -11                      | METAL GLAZE METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE | 470V  | E9/                                    | 1 /100                                    |               |
| R343<br>R344<br>R345<br>R346<br>R347 | 1-216-095-00<br>1-216-099-00<br>1-216-063-00<br>1-216-057-00<br>1-216-065-00 | METAL GLAZE   | 82K<br>120K<br>3.9K<br>2.2K<br>4.7K | 5%<br>5%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R422<br>R423<br>R424                         | 1-216-073-<br>1-216-073-<br>1-216-033-   | -00<br>-00<br>-00        | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  | 10K<br>10K<br>220                                   | 55 55555555555555555555555555555555555 | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |               |
| R348<br>R349<br>R350<br>R351<br>R352 | 1-216-031-00<br>1-216-694-11<br>1-216-085-00<br>1-216-061-00<br>1-216-675-11 | METAL CHIP<br>METAL GLAZE   | 180<br>62K<br>33K<br>3.3K<br>10K    | 5%<br>5%                      | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R425<br>R426<br>R427<br>R428<br>R429         | 1-216-049-<br>1-216-039-<br>1-216-033-<br>1-216-097-<br>1-216-073-               | -00<br>-00<br>-00        | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                    | 1K<br>390<br>220<br>100K<br>10K                     | 55 55555555555555555555555555555555555 | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |               |
| R353<br>R355<br>R356<br>R357<br>R358 | 1-216-049-00<br>1-216-059-00<br>1-216-689-11<br>1-216-121-00<br>1-216-053-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 1K<br>2.7K<br>39K<br>1M<br>1.5K     | 5%<br>5%                      | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R430<br>R431<br>R432<br>R434<br>R435         | 1-216-119-<br>1-216-097-<br>1-216-089-<br>1-216-109-<br>1-216-105-               | -00<br>-91<br>-00        | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                    | 820K<br>100K<br>47K<br>330K<br>220K                 | 5%<br>5%<br>5%                         | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |               |
| R359<br>R360<br>R361<br>R362         | 1-216-065-00<br>1-216-039-00<br>1-216-025-00<br>1-216-067-00                 | METAL GLAZE<br>METAL GLAZE  | 4.7K<br>390<br>100<br>5.6K          | 5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W          |        | R436<br>R437<br>R438<br>R439                 | 1-216-113<br>1-216-097<br>1-216-053<br>1-216-033                                 | -00<br>-00               | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  | 470K<br>100K<br>1.5K<br>220                         | 5%<br>5%<br>5%                         | 1/10W<br>1/10W<br>1/10W<br>1/10W          |               |

|   | REF.NO.                                   | PART NO.   | DESCRIPTION  |                                     |                                     |   | REMARK     | REF.NO.                                      | PART NO.   | DESCRIPTION   |  |                   |   | REMARK |
|---|---|--|--|-------------------------------------|-------------------------------------|---|------------|--|--|---|--|-------------------|---|--------|
|   | R440<br>R441<br>R442<br>R443<br>R444      | 1-216-647-11   | METAL CHIP<br>METAL CHIP<br>METAL GLAZE                              | 560<br>680                          | 5%<br>0.50%<br>0.50%<br>5%<br>5%    | 1/10W<br>1/10W                            |            | R507<br>R508<br>R509<br>R510                 | 1-216-083-00<br>1-216-105-00<br>1-216-089-91<br>1-216-097-00<br>1-216-099-00<br>1-216-055-00 |   | 27K<br>220K<br>47K<br>100K<br>120K<br>1.8K | _                 | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W         |        |
|   | R445<br>R447<br>R448<br>R449<br>R450      | 1-216-095-00<br>1-216-069-00<br>1-216-049-00<br>1-216-073-00<br>1-216-121-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                            | 82K<br>6.8K<br>1K<br>10K<br>1M      | 5%<br>5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |            | R513   | 1-216-055-00<br>1-216-295-00<br>1-216-295-00<br>1-216-675-11<br>1-216-697-11<br>1-214-888-00 | METAL GLAZE   | 0<br>0<br>10K<br>82K                       |                   | 1/10W<br>1/10W<br>1/10W<br>1/10W                  |        |
|   | R451<br>R452<br>R453<br>R455<br>R456      | 1-216-037-00<br>1-216-651-11<br>1-216-097-00<br>1-216-085-00<br>1-216-053-00 | METAL CHIP<br>METAL GLAZE<br>METAL GLAZE                             | 1 K<br>100 K<br>33 K<br>1.5 K       | 5%<br>0.50%<br>5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W<br>1/10W          |            | R517<br>R518<br>R519<br>R520<br>R521<br>R522 |  | METAL  CARBON METAL GLAZE CARBON METAL GLAZE CARBON               | 10K  | 1%                | 1/2W<br>1/2W<br>1/10W<br>1/4W<br>1/10W            | F      |
|   | R 457<br>R 458<br>R 459<br>R 460<br>R 462 | 1-216-649-11<br>1-216-073-00<br>1-216-651-11                                 | METAL GLAZE<br>METAL CHIP<br>METAL GLAZE<br>METAL CHIP               | 820<br>10K<br>1K                    | 5%<br>5%<br>0.50%<br>5%<br>0.50%    | 1/10W<br>1/10W<br>1/10W                   |            | R522<br>R523<br>R524<br>R525<br>R526<br>R527 | 1-215-892-11<br>1-216-093-00<br>1-216-069-00<br>1-216-089-91                                 | METAL OXIDE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE          | 10K<br>1K<br>68K<br>6.8K<br>47K<br>47K     |                   | 1/2W<br>2W<br>1/10W<br>1/10W<br>1/10W             | F      |
|   | R 463<br>R 464<br>R 465<br>R 466<br>R 467 |  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE             | 4.7K<br>4.7K<br>100<br>15K<br>1M    |                                     | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |            | R527<br>R528<br>R529<br>R530<br>R531<br>R532 | 1-216-089-91<br>1-216-089-91<br>1-216-089-91<br>1-216-367-11<br>1-216-077-00                 | METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE       | 47K<br>47K<br>0.68                         |                   | 1/10W<br>1/10W<br>1/10W<br>2W<br>1/10W            | F      |
|   | R468<br>R469<br>R470<br>R471<br>R472      | 1-216-105-00<br>1-216-063-00<br>1-216-069-00<br>1-216-109-00<br>1-216-077-00 |  | 220K<br>3.9K<br>6.8K<br>330K<br>15K |                                     | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |            | R532<br>R533<br>R534<br>R535<br>R536<br>R537 | 1-215-919-71<br>1-247-723-11<br>1-216-085-00<br>1-249-448-11<br>1-216-101-00                 | METAL GLAZE<br>CARBON<br>METAL GLAZE                              | 2.2K<br>6.8K<br>33K<br>1.2<br>150K<br>47K  |                   | 3W<br>1/4W<br>1/10W<br>1/4W<br>1/10W              |        |
|   | R473<br>R474<br>R475<br>R476<br>R477      | 1-216-121-00<br>1-216-649-11<br>1-216-025-00<br>1-216-061-00<br>1-216-061-00 | METAL CHIP<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE              | 100<br>3.3K<br>3.3K                 | 0.50%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W                   |            | R537<br>R539<br>R540<br>R541<br>R542<br>R543 | 1-216-089-91<br>1-216-065-00<br>1-216-113-00<br>1-249-383-11<br>1-216-057-00                 | METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE FUSIBLE    | 47K<br>4.7K<br>470K<br>1.5<br>2.2K<br>120  | 5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/4W<br>1/10W          |        |
|   | R478<br>R479<br>R480<br>R481<br>R482      | 1-216-073-00<br>1-216-085-00<br>1-216-077-00<br>1-216-033-00<br>1-216-057-00 | METAL GLAZE  | 10K<br>33K<br>15K<br>220<br>2.2K    |                                     | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |            | R544<br>R545<br>R546                         |  | METAL GLAZE<br>METAL GLAZE<br>CARBON<br>METAL GLAZE<br>METAL CHIP | 120<br>82K<br>10K<br>4.7K<br>2.2K          | 5%<br>5%<br>5%    | 1/4W<br>1/10W<br>1/10W<br>1/4W<br>1/10W           |        |
|   | R483<br>R484<br>R485<br>R486<br>R487      | 1-216-025-00<br>1-216-651-11<br>1-216-033-00<br>1-216-681-11<br>1-216-653-11 | METAL GLAZE<br>METAL CHIP<br>METAL GLAZE<br>METAL CHIP<br>METAL CHIP | 100<br>1K<br>220<br>18K<br>1.2K     | 5%<br>0.50%<br>5%<br>0.50%<br>0.50% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |            | R549<br>R550<br>R551<br>R552<br>R553         | 1-216-053-00<br>1-216-077-00<br>1-216-033-00   | METAL GLAZE<br>METAL GLAZE  | 1.5K<br>15K<br>220                         | 0.50%<br>5%<br>5% | 17 10W  |        |
| • | R488<br>R489<br>R490<br>R491<br>R492      | 1-216-073-00<br>1-216-077-00<br>1-216-057-00<br>1-216-061-00<br>1-216-085-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                            | 10K<br>15K<br>2.2K<br>3.3K<br>33K   | 5%<br>5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | }          | R555<br>R556<br>R558<br>R559                 | 1-216-095-00<br>1-216-692-11<br>1-216-464-11<br>1-247-711-11                                 | METAL CHIP<br>METAL OXIDE<br>CARBON                               | 82K<br>51K<br>18K<br>680                   | 5%                | 1/10W<br>1/10W<br>2W<br>1/4W                      | F      |
|   | R493<br>R494<br>R495<br>R496<br>R497      | 1-216-295-00<br>1-216-085-00<br>1-216-651-11<br>1-216-073-00<br>1-216-653-11 | METAL GLAZE<br>METAL CHIP<br>METAL GLAZE                             | 0<br>33K<br>1K<br>10K<br>1.2K       | 5%                                  | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | }<br>}     | R560<br>R561<br>R563<br>R564                 | 1-216-109-00<br>1-216-091-00<br>1-216-049-00<br>1-216-017-00<br>1-216-107-00                 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE                   | 330K<br>56K<br>1K<br>47<br>270K            | 5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W         |        |
|   | R498<br>R499<br>R500<br>R501<br>R502      | 1-216-061-00<br>1-216-033-00<br>1-216-689-11<br>1-216-077-00<br>1-216-677-11 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                            | 3.3K<br>220<br>39K<br>15K<br>12K    | 5%<br>5%<br>5%<br>5%<br>5%<br>0.50% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | i<br>}<br> | R565<br>R566<br>R567<br>R568<br>R569         | 1-216-033-00<br>1-216-685-11<br>1-216-081-00<br>1-216-073-00<br>1-260-114-11                 | METAL CHIP  METAL GLAZE  METAL GLAZE  CARBON                      | 220<br>27K<br>22K<br>10K<br>18K            | 5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/2W |        |
|   | R503<br>R504<br>R505<br>R506              | 1-216-677-11<br>1-216-111-00<br>1-216-067-00<br>1-216-073-00                 | METAL GLAZE METAL GLAZE  | 12K<br>390K<br>5.6K<br>10K          | 0.50%<br>5%                         | 1/10W<br>1/10W<br>1/10W<br>1/10W          | ý<br>Ú     | R571<br>R572<br>R573<br>R574                 | 1-216-065-00<br>1-216-059-00<br>1-216-071-00<br>1-216-689-11                                 | METAL GLAZE  METAL GLAZE  | 4.7K<br>2.7K<br>8.2K<br>39K                | 555 555           | 1/10W<br>1/10W<br>1/10W<br>1/10W                  |        |
|   |   |  |  |                                     |                                     |   |            |  |  |   |  |                   |   |        |

| REF.NO.   | PART NO.   | DESCRIPTION   |                                   |                                  |   | REMARK | REF.NO.                                   | PART NO.   | DESCRIPTION   |                                    |   |  | REMARK |
|---|--|---|-----------------------------------|----------------------------------|---|--------|---|--|---|------------------------------------|---|--|--------|
| R576<br>R578<br>R580<br>R582<br>R583                | 1-216-101-00<br>1-216-693-11<br>1-216-105-00<br>1-216-085-00<br>1-216-039-00 | METAL GLAZE<br>METAL CHIP<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  | 150K<br>56K<br>220K<br>33K<br>390 | 5%<br>0.50%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W   |        | R1146<br>R1147<br>R1148<br>R1150<br>R1151 | 1-216-057-00<br>1-216-057-00<br>1-216-065-00<br>1-216-037-00<br>1-216-081-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP METAL GLAZE   | 2.2K<br>2.2K<br>4.7K<br>330<br>22K | 5%<br>5%<br>5%<br>5%                      | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R584<br>R585<br>R586<br>R587<br>R588                | 1-216-071-00<br>1-216-033-00<br>1-216-686-11<br>1-216-675-11<br>1-216-077-00 | METAL GLAZE<br>METAL GLAZE<br>METAL CHIP<br>METAL CHIP<br>METAL GLAZE   | 8.2K<br>220<br>30K<br>10K<br>15K  | 5%<br>5%<br>0.50%<br>0.50%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W   |        | R1155<br>R1161<br>R1162<br>R1163<br>R1164 | 1-216-133-00<br>1-218-776-11<br>1-218-768-11<br>1-216-033-00<br>1-216-049-00 | METAL GLAZE  METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE  | 3.3M<br>1M<br>470K<br>220<br>1K    | 5%<br>0.50%<br>0.50%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R589<br>R590<br>R591<br>R592<br>R593                | 1-216-067-00<br>1-216-081-00<br>1-216-683-11<br>1-247-688-11<br>1-216-647-11 | METAL GLAZE<br>METAL GLAZE<br>METAL CHIP<br>CARBON<br>METAL CHIP        | 5.6K<br>22K<br>22K<br>10<br>680   | 5%<br>5%<br>0.50%<br>5%<br>0.50% | 1/10W<br>1/10W<br>1/10W<br>1/4W<br>1/10W    | F      | R1165<br>R1166<br>R1167<br>R1168<br>R1169 | 1-216-049-00<br>1-216-295-00<br>1-216-097-00<br>1-216-097-00<br>1-216-097-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 1K<br>0<br>100K<br>100K<br>100K    | 5%<br>5%<br>5%<br>5%                      | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R594<br>R595<br>R596<br>R597<br>R598                | 1-260-104-91<br>1-216-689-11<br>1-214-754-00<br>1-249-417-11<br>1-216-085-00 | CARBON<br>METAL GLAZE<br>METAL<br>CARBON<br>METAL GLAZE                 | 2.7K<br>39K<br>11K<br>1K<br>33K   | 5%<br>5%<br>1%<br>5%<br>5%       | 1/2W<br>1/10W<br>1/4W<br>1/4W<br>1/10W      | F      | R1170<br>R1171<br>R1172<br>R1173<br>R1176 | 1-216-089-91<br>1-216-085-00<br>1-216-085-00<br>1-216-295-00<br>1-216-295-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 47K<br>33K<br>33K<br>0             | 5%<br>5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R 1 103<br>R 1 104                                  | 1-216-077-00<br>1-216-699-11   | METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP                           | 0<br>0<br>15K<br>100K             | 0.50%<br>5%<br>5%<br>5%<br>0.50% | 1/10W<br>1/10W<br>1/10W<br>1/10W            |        | R1177<br>R1178<br>R1179<br>R1180<br>R1181 | 1-216-295-00<br>1-216-041-00<br>1-216-089-91<br>1-216-295-00                 | METAL GLAZE | 8.2K<br>0<br>470<br>47K<br>0       | 555555555555555555555555555555555555555   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R 1 107<br>R 1 108<br>R 1 109                       | 1-216-073-00<br>1-216-097-00<br>1-216-059-00<br>1-216-681-11<br>1-216-295-00 | METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE                          | 100K<br>2.7K<br>18K<br>0          | 5%<br>5%<br>0.50%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W            |        | R1183<br>R1184<br>R1185<br>R1186          | 1-216-071-00<br>1-216-131-11<br>1-216-071-00<br>1-216-131-11<br>1-216-071-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE   | 8.2K<br>2.7M<br>8.2K<br>2.7M       | 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5  | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R1111<br>R1112<br>R1113<br>R1114<br>R1115           | 1-216-065-00<br>1-216-065-00<br>1-216-081-00<br>1-216-049-00                 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE                         | 4.7K<br>4.7K<br>22K<br>1K         | 5%<br>5%<br>5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W<br>1/10W            |        | R1188<br>R1189<br>R1190<br>R1191          | 1-216-131-11<br>1-216-071-00<br>1-216-131-11<br>1-216-071-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  | 2.7M<br>8.2K<br>2.7M<br>8.2K       | 5%<br>5%<br>5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R 1116<br>R 1117<br>R 1118<br>R 1119                | 1-216-049-00<br>1-216-677-11<br>1-216-069-00<br>1-216-113-00<br>1-216-694-11 | METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP                           | 12K<br>6.8K<br>470K<br>62K        | 0.50%<br>5%<br>5%<br>0.50%       | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>( 1/10W |        | R1193<br>R1194<br>R1195<br>R1196          | 1-216-025-00<br>1-216-085-00<br>1-216-025-00<br>1-216-025-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 100<br>33K<br>100<br>33K           | 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5    | 1/10W<br>1/10W<br>1/10W<br>1/10W                   |        |
| R 1 120<br>R 1 123<br>R 1 124<br>R 1 125<br>R 1 126 | 1-216-071-00<br>1-216-113-00<br>1-216-049-00<br>1-216-041-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 47K<br>8.2K<br>470K<br>1K<br>470  | 5%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W            |        | R1197<br>R1198<br>R1301<br>R1302<br>R1303 | 1-216-085-00<br>1-216-085-00<br>1-216-029-00<br>1-216-029-00<br>1-216-039-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE   | 33K<br>150<br>150<br>390           | 5%<br>5%<br>5%<br>5%                      | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R 1127<br>R 1128<br>R 1129<br>R 1130<br>R 1131      | 1-216-065-00<br>1-216-071-00<br>1-216-049-00<br>1-216-049-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 8.2K<br>1K<br>1K                  | 5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W   | }      | R1304<br>R1305<br>R1306<br>R1307<br>R1308 | 1-216-033-00<br>1-216-645-11<br>1-216-091-00                                 | METAL GLAZE<br>METAL CHIP<br>METAL GLAZE  | 39K<br>220<br>560<br>56K<br>560    | 5%<br>0.50%<br>5%                         | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R 1132<br>R 1133<br>R 1134<br>R 1135<br>R 1136      | 1-216-073-00   | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 8.2K<br>6.8K<br>10K<br>0<br>100K  | 5%<br>5%                         | 1/100<br>1/100<br>1/100<br>1/100<br>1/100   |        | R1309<br>R1310<br>R1311<br>R1312          | 1-216-025-00<br>1-216-025-00<br>1-216-089-91                                 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE   | 100<br>100<br>47K<br>120<br>100K   | 5% %%%%<br>5%%%%                          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R 1137<br>R 1138<br>R 1139<br>R 1140<br>R 1141      | 1-216-081-00<br>1-216-055-00<br>1-216-653-11                                 | METAL GLAZE<br>METAL GLAZE<br>METAL CHIP                                | 10K<br>22K<br>1.8K<br>1.2K<br>27K |                                  | 1/100<br>1/100<br>1/100<br>1/100<br>1/100   | i<br>i | R1314<br>R1315<br>R1316<br>R1317<br>R1318 | 1-216-081-00<br>1-216-025-00<br>1-216-065-00<br>1-216-041-00                 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE   | 22K<br>100<br>4.7K<br>470<br>3.3K  | 5%<br>5%<br>5%                            | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R1144   | 1-216-653-11<br>1-216-653-11<br>1-216-073-00<br>1-216-067-00                 | METAL CHIP METAL GLAZE  | 1.2K<br>1.2K<br>10K<br>5.6K       | 0.500<br>0.500<br>5%<br>5%       | % 1/100<br>% 1/100<br>1/100<br>1/100        | Ú<br>Ú | R1319<br>R1320                            | 1-216-085-00<br>1-216-085-00<br>1-216-649-11                                 | METAL GLAZE  METAL GLAZE  | 33K<br>4.7K<br>820                 | 5%<br>5%                                  | 1/10W<br>1/10W<br>1/10W                            |        |

| BETAMEN   PART NO.   DESCRIPTION   | <br>   |  |   |                                      |                               |   |   |   |                                 |   |   |   |                                   |                               |                                  |        |
|--|--|--|---|--------------------------------------|-------------------------------|---|---|---|---------------------------------|---|---|---|-----------------------------------|-------------------------------|----------------------------------|--------|
| R1394 1-216-03-00 METAL GLAZE 22 5Z 1/10W R1401 1-216-03-00 METAL GLAZE 3Z 5Z 1/10W R1393 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1401 1-216-03-01 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1406 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1405 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1405 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1405 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 230 5Z 1/10W R1301 1-216-03-00 METAL GLA |  |  |   |                                      |                               |   |   |   |                                 |   |   |   |                                   |                               |                                  | REMARK |
| R1394 1-216-03-00 METAL GLAZE 22 5Z 1/10W R1401 1-216-03-00 METAL GLAZE 3Z 5Z 1/10W R1393 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1401 1-216-03-01 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1406 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1405 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1405 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1405 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 230 5Z 1/10W R1301 1-216-03-00 METAL GLA | R1322<br>R1323<br>R1324<br>R1325<br>R1326      | 1-216-057-00<br>1-216-097-00<br>1-216-061-00<br>1-216-652-11<br>1-216-073-00 | METAL GLAZE<br>METAL GLAZE<br>METAL CHIP<br>METAL GLAZE                 | 2.2K<br>100K<br>3.3K<br>1.1K<br>10K  | 5%<br>5%<br>5%<br>0.50%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |   | R1386<br>R1387<br>R1388<br>R1389          | 1-2<br>1-2<br>1-2<br>1-2        | 16-077-00<br>16-653-11<br>16-689-11<br>16-657-11              | METAL<br>METAL<br>METAL<br>METAL          | GLAZE<br>CHIP<br>CHIP<br>CHIP             | 15K<br>1.2K<br>39K<br>1.8K        | 5%<br>0.50%<br>0.50%<br>0.50% | 1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R1394 1-216-03-00 METAL GLAZE 22 5Z 1/10W R1401 1-216-03-00 METAL GLAZE 3Z 5Z 1/10W R1393 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1401 1-216-03-01 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1406 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1405 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1405 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1405 1-216-03-11 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 220 5Z 1/10W R1301 1-216-03-00 METAL GLAZE 230 5Z 1/10W R1301 1-216-03-00 METAL GLA | R1328<br>R1329<br>R1330                        | 1-216-073-00<br>1-216-125-00<br>1-216-103-91<br>1-216-081-00<br>1-216-679-11 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL CHIP  | 10K<br>1.5M<br>180K<br>22K<br>15K    | 5%<br>5%<br>5%<br>5%<br>0.50% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |   | R1391<br>R1392<br>R1393<br>R1394          | 1-2<br>1-2<br>1-2<br>1-2<br>1-2 | 16-025-00<br>16-041-00<br>16-063-00<br>16-041-00<br>16-071-00 | METAL<br>METAL<br>METAL<br>METAL          | GLAZE<br>GLAZE<br>GLAZE<br>GLAZE<br>GLAZE | 100<br>470<br>3.9K<br>470         | 5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R1340   -216-681-11   METAL GLAZE   220   5%   1/10W   R1341   -216-683-00   METAL GLAZE   220   5%   1/10W   R1341   -216-683-00   METAL GLAZE   220   5%   1/10W   R1342   -216-683-00   METAL GLAZE   220   5%   1/10W   R1342   -216-683-00   METAL GLAZE   220   5%   1/10W   R1342   -216-683-00   METAL GLAZE   220   5%   1/10W   R1343   -216-037-00   METAL GLAZE   230   5%   1/10W   R1344   -216-039-00   METAL GLAZE   688   5%   5%   1/10W   R1344   -216-039-00   METAL GLAZE   688   5%   5%   1/10W   R1345   -216-039-00   METAL GLAZE   688   5%   1/10W   R1346   -216-039-00   METAL GLAZE   688   5%   1/10W   R1346   -216-039-00   METAL GLAZE   688   5%   1/10W   R1348   -216-071-00   METAL GLAZE   688   5%   1/10W   R1349   -216-039-00   METAL GLAZE   20   5%   1/10W   R1349   -216-039-00   METAL GLAZE   20   5%   1/10W   R1349   -216-039-00   METAL GLAZE   20   5%   1/10W   R1351   -216-039   | R1334<br>R1335<br>R1336                        | 1-216-063-00<br>1-249-401-11<br>1-216-095-00                                 | CARBON<br>METAL GLAZE   | 3.9K<br>47<br>82K                    | 5%<br>5%<br>5%                | 1/10W<br>1/4W<br>1/10W                    | F | R1396<br>R1397<br>R1399<br>R1401<br>R1402 | 1-2<br>1-2<br>1-2<br>1-2        | 16-071-00<br>16-065-00<br>16-073-00<br>16-085-00<br>16-295-00 | METAL<br>METAL<br>METAL<br>METAL          | GLAZE<br>GLAZE<br>GLAZE<br>GLAZE<br>GLAZE | 8. 2K<br>4. 7K<br>10K<br>33K      | 5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R1344 1-216-093-00 METAL GLAZE 68K 5% 1/10W R1409 1-216-295-00 METAL GLAZE 0 5% 1/10W R1346 1-216-097-00 METAL GLAZE 10K0 5% 1/10W R1410 1-216-093-00 METAL GLAZE 10K 5% 1/10W R1411 1-216-073-00 METAL GLAZE 10K 5% 1/10W R1413 1-216-073-00 METAL GLAZE 2K 5% 1/10W R1415 1-216-073-00 METAL GLAZE 2K 5% 1/10W R1451 1-216-073-00 METAL GLAZE 5% 5% 1/10W R1450 1-216-073-00 ME | R1340<br>R1341                                 | 1-216-033-00   |   |                                      | 5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |   | R1403<br>R1404<br>R1405<br>R1406<br>R1407 | 1-2<br>1-2<br>1-2<br>1-2        | 16-651-11<br>16-681-11<br>16-071-00<br>16-653-11<br>16-061-00 | METAL<br>METAL<br>METAL<br>METAL<br>METAL | CHIP<br>CHIP<br>GLAZE<br>CHIP<br>GLAZE    | 1K<br>18K<br>8.2K<br>1.2K<br>3.3K |                               | 1/ IOW                           |        |
| R1348 1-216-071-00 METAL GLAZE 8.2% 5% 1/10W R1350 1-216-073-00 METAL GLAZE 270 5% 1/10W R1351 1-216-039-00 METAL GLAZE 270 5% 1/10W R1415 1-216-039-00 METAL GLAZE 20 5% 1/10W R1351 1-216-039-00 METAL GLAZE 20 5% 1/10W R1416 1-216-113-00 METAL GLAZE 470K 5% 1/10W R1351 1-216-039-00 METAL GLAZE 20 5% 1/10W R1353 1-216-065-00 METAL GLAZE 470K 5% 1/10W R1353 1-216-065-00 METAL GLAZE 470K 5% 1/10W R1355 1-216-033-00 METAL GLAZE 470K 5% 1/10W R1355 1-216-033-00 METAL GLAZE 470K 5% 1/10W R1355 1-216-033-00 METAL GLAZE 470K 5% 1/10W R1356 1-216-033-00 METAL GLAZE 20 5% 1/10W R1420 1-216-095-00 METAL GLAZE 470K 5% 1/10W R1356 1-216-033-00 METAL GLAZE 20 5% 1/10W R1420 1-216-095-00 METAL GLAZE 20 5% 1/10W R1356 1-216-010-00 METAL GLAZE 20 5% 1/10W R1420 1-216-095-00 METAL GLAZE 30K 5% 1/10W R1358 1-216-071-00 METAL GLAZE 20 5% 1/10W R1420 1-216-095-00 METAL GLAZE 30K 5% 1/10W R1359 1-216-001-00 METAL GLAZE 8.2% 5% 1/10W R1359 1-216-001-00 METAL GLAZE 8.2% 5% 1/10W R1350 1-216-011-00 METAL GLAZE 8.2% 5% 1/10W R1350 1-216-011-00 METAL GLAZE 8.2% 5% 1/10W R1350 1-216-011-00 METAL GLAZE 470K 5% 1/10W R1350 1-216-011-00 METAL GLAZE 470K 5% 1/10W R1350 1-216-011-00 METAL GLAZE 470K 5% 1/10W R1425 1-216-013-00 METAL GLAZE 20 5% 1/10W R1350 1-216-015-00 METAL GLAZE 470K 5% 1/10W R1350 1-216-015-00 METAL GLAZE 470K 5% 1/10W R1350 1-216-015-00 METAL GLAZE 470K 5% 1/10W R1350 1-216-015-00 METAL GLAZE 20K 5% 1/10W R1350 1-216-0 | R1346  | 1-216-109-00   | METAL GLAZE   |                                      | 5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W                   |   | R1409<br>R1410<br>R1411                   | 1-2<br>1-2<br>1-2<br>1-2        | 16-113-00<br>16-295-00<br>16-053-00<br>16-073-00<br>16-107-00 | METAL<br>METAL<br>METAL<br>METAL<br>METAL | GLAZE<br>GLAZE<br>GLAZE<br>GLAZE<br>GLAZE | 470K<br>0<br>1.5K<br>10K<br>270K  |                               |                                  |        |
| R 1353   -216-089-91   METAL GLAZE   4.7K   5%   1/10W   R 1355   1-216-033-00   METAL GLAZE   220   5%   1/10W   R 1420   1-216-089-91   METAL GLAZE   220   5%   1/10W   R 1420   1-216-089-91   METAL GLAZE   220   5%   1/10W   R 1421   1-216-089-91   METAL GLAZE   220   1/10W   R 1421   1-216-089-91   METAL GLAZE   220   1/10W   R 1422   1-216-089-91   METAL GLAZE   220   5%   1/10W   R 1422   1-216-089-00   METAL GLAZE   220   5%   1/10W   R 1422   1-216-089-00   METAL GLAZE   220   5%   1/10W   R 1423   1-216-089-00   METAL GLAZE   220   5%   1/10W   R 1426   1-216-013-00   METAL GLAZE   220   5%   1/10W   R 1426   1-216-113-00   METAL GLAZE   24.7K   5%   1/10W   R 1426   1-216-113-00   METAL GLAZE   270   METAL  | R1348<br>R1349<br>R1350<br>R1351               | 1-216-035-00<br>1-216-073-00<br>1-216-033-00                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               |                                      | 5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W                   |   | 1   | 1-2<br>1-2                      | 116-057-00<br>116-093-00                                      | METAL<br>METAL<br>METAL                   | GLAZE<br>GLAZE<br>GLAZE                   |                                   |                               | 1/10W<br>1/10W<br>1/10W          |        |
| R1359 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R1361 1-216-113-00 METAL GLAZE 4.7K 5% 1/10W R1361 1-216-613-00 METAL GLAZE 4.7K 5% 1/10W R1363 1-216-13-00 METAL GLAZE 4.7K 5% 1/10W R1363 1-216-13-00 METAL GLAZE 4.7K 5% 1/10W R1363 1-216-13-00 METAL GLAZE 10K 5% 1/10W R1363 1-216-13-10 METAL GLAZE 10K 5% 1/10W R1363 1-216-13-10 METAL GLAZE 10K 5% 1/10W R1365 1-216-131-11 METAL GLAZE 2.7M 5% 1/10W R1365 1-216-131-11 METAL GLAZE 2.7M 5% 1/10W R1366 1-216-081-00 METAL GLAZE 2.7M 5% 1/10W R1366 1-216-081-00 METAL GLAZE 2.2K 5% 1/10W R1366 1-216-081-00 METAL GLAZE 2.2K 5% 1/10W R1368 1-216-059-00 METAL GLAZE 2.7K 5% 1/10W R1369 1-216-059-00 METAL GLAZE 2.7K 5% 1/10W R1369 1-216-1059-00 METAL GLAZE 2.7K 5% 1/10W R1370 1-216-105-00 METAL GLAZE 2.7K 5% 1/10W R1371 1-216-13-00 METAL GLAZE 2.2K 5% 1/10W R1373 1-216-063-00 METAL GLAZE 2.2K 5% 1/10W R1373 1-216-105-00 METAL GLAZE 2.2K 5% 1/10W R1373 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R1373 1-216-064-11 METAL CHIP 680 0.50% 1/10W R1441 1-216-031-00 METAL GLAZE 2.2K 5% 1/10W R1373 1-216-065-00 METAL GLAZE 3.9K 5% 1/10W R1373 1-216-064-11 METAL CHIP 680 0.50% 1/10W R1445 1-216-073-00 METAL GLAZE 2.2K 5% 1/10W R1373 1-216-064-11 METAL CHIP 680 0.50% 1/10W R1441 1-216-031-00 METAL GLAZE 3.9K 5% 1/10W R1373 1-216-065-00 METAL GLAZE 3.9K 5% 1/10W R1373 1-216-064-11 METAL CHIP 680 0.50% 1/10W R1445 1-216-073-00 METAL GLAZE 2.2K 5% 1/10W R1383 1-216-064-11 METAL CHIP 680 0.50% 1/10W R1445 1-216-073-00 METAL | R 1352<br>R 1353<br>R 1354<br>R 1355<br>R 1356 | 1-216-065-00<br>1-216-065-00<br>1-216-089-91<br>1-216-033-00<br>1-216-105-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE |                                      |                               | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |   | R1418<br>R1419<br>R1420<br>R1421<br>R1422 | 1-2<br>1-2<br>1-2<br>1-2        | 16-033-00<br>16-025-00<br>16-089-91<br>16-649-11              | METAL<br>METAL<br>METAL<br>METAL          | GLAZE<br>GLAZE<br>GLAZE<br>CHIP           | 100<br>47K<br>820                 | 5%<br>5%<br>0.50%             | 1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R 1364 1-216-073-00 METAL GLAZE 10K 5% 1/10W R 1365 1-216-081-01 METAL GLAZE 2.7M 5% 1/10W R 1366 1-216-081-00 METAL GLAZE 2.2K 5% 1/10W R 1430 1-216-073-00 METAL GLAZE 2.2M 5% 1/10W R 1431 1-216-129-00 METAL GLAZE 2.2M 5% 1/10W R 1431 1-216-089-01 METAL GLAZE 2.2M 5% 1/10W R 1368 1-216-059-00 METAL GLAZE 2.2K 5% 1/10W R 1370 1-216-105-00 METAL GLAZE 1.2K 5% 1/10W R 1370 1-216-105-00 METAL GLAZE 2.2K 5% 1/10W R 1371 1-216-113-00 METAL GLAZE 2.0K 5% 1/10W R 1373 1-216-063-00 METAL GLAZE 2.0K 5% 1/10W R 1373 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R 1373 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R 1375 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1376 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1376 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1377 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1377 1-216-065-00 METAL GLAZE 1.0K 5% 1/10W R 1377 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1378 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1380 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1380 1-216-645-11 METAL GLAZE 3.30 5% 1/10W R 1381 1-216-037-00 METAL GLAZE 3.30 5% 1/10W R 1381 1-216-037-00 METAL GLAZE 3.30 5% 1/10W R 1380 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1380 1-216-038-00 METAL GLAZE 3.2 5% 1/10W R 1380 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1380 1-216-038-00 METAL GLAZE 2.2 5% 1/10W R 1380 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1346 1-216-071-00 METAL GLAZE 2.2 5% 1/10W R 1380 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1346 1-216-071-00 METAL GLAZE 3.2 5% 1/10W R 1380 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1346 1-216-071-00 METAL GLAZE 3.2 5% 1/10W R 1380 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1346 1-216-071-00 METAL GLAZE 3.2 5% 1/10W R 1380 1-216-645-11 METAL CHIP 560 0.50% 1/10W R 1346 1 | R 1358<br>R 1359                               | 1-216-071-00<br>1-216-099-00<br>1-216-065-00                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 150K<br>8.2K<br>120K<br>4.7K<br>470K | 5%<br>5%                      | 1/10W<br>1/10W                            |   | R1424                                     | $\frac{1-2}{1-2}$               | 216 <b>-</b> 081-00<br>216-013-00                             | METAL                                     | GLAZE<br>GLAZE                            | 22K                               | 5%<br>5%<br>5%                | 1/10W<br>1/10W                   |        |
| R1370 1-216-105-00 METAL GLAZE 220K 5% 1/10W R1371 1-216-113-00 METAL GLAZE 470K 5% 1/10W R1371 1-216-113-00 METAL GLAZE 470K 5% 1/10W R1373 1-216-063-01 METAL GLAZE 3.9K 5% 1/10W R1373 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R1373 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R1374 1-216-101-00 METAL GLAZE 150K 5% 1/10W R1375 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1376 1-216-647-11 METAL CHIP 680 0.50% 1/10W R1377 1-216-055-00 METAL GLAZE 1.8K 5% 1/10W R1378 1-216-055-00 METAL GLAZE 1.8K 5% 1/10W R1378 1-216-055-00 METAL GLAZE 1.8K 5% 1/10W R1378 1-216-056-00 METAL GLAZE 4.7K 5% 1/10W R1378 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R1380 1-216-045-11 METAL CHIP 560 0.50% 1/10W R1381 1-216-045-10 METAL GLAZE 2.2K 5% 1/10W R1381 1-216-047-10 METAL CHIP 560 0.50% 1/10W R1381 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1444 1-216-057-00 METAL GLAZE 33 5% 1/10W R1381 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1445 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W R1381 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1445 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W R1381 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1445 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W R1381 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1445 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W R1381 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1445 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W R1381 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1445 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W R1381 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1445 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W R1383 1-216-681-11 METAL CHIP 580 0.50% 1/10W R1448 1-216-085-00 METAL GLAZE 33K 5% 1/10W R1383 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R1448 1-216-085-00 METAL GLAZE 33K 5% 1/10W R1383 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R1448 1-216-085-00 METAL GLAZE 33K 5% 1/10W R1383 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R1448 1-216-085-00 METAL GLAZE 33K 5% 1/10W R1383 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R1448 1-21 | R 1362<br>R 1363<br>R 1364<br>R 1365<br>R 1366 | 1-216-676-11<br>1-216-113-00<br>1-216-073-00<br>1-216-131-11<br>1-216-081-00 | METAL CHIP<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  | 11K<br>470K<br>10K<br>2.7M<br>22K    | 0.50%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |   | R1428<br>R1429<br>R1430<br>R1431          | 1-2<br>1-2<br>1-3<br>1-3        | 216-061-00<br>216-668-11<br>216-073-00<br>216-129-00          | METAL<br>METAL<br>METAL<br>METAL          | CHIP<br>GLAZE<br>GLAZE                    | 3.3K<br>5.1K<br>10K<br>2.2M       | 5%                            | 1/10W                            |        |
| R1372 1-249-437-11 CARBON 47K 5% 1/4W R1373 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W R1374 1-216-101-00 METAL GLAZE 150K 5% 1/10W R1375 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1376 1-216-647-11 METAL CHIP 680 0.50% 1/10W R1377 1-216-055-00 METAL GLAZE 1.8K 5% 1/10W R1377 1-216-055-00 METAL GLAZE 1.8K 5% 1/10W R1378 1-216-065-00 METAL GLAZE 1.8K 5% 1/10W R1378 1-216-065-00 METAL GLAZE 1.8K 5% 1/10W R1378 1-216-065-00 METAL GLAZE 1.0W R1378 1-216-0647-11 METAL CHIP 560 0.50% 1/10W R1378 1-216-0647-11 METAL CHIP 560 0.50% 1/10W R1378 1-216-0645-11 METAL CHIP 560 0.50% 1/10W R1381 1-216-045-10 METAL GLAZE 330 5% 1/10W R1381 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1445 1-216-071-00 METAL GLAZE 2.2K 5% 1/10W R1381 1-216-647-11 METAL CHIP 560 0.50% 1/10W R1445 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W R1381 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1446 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W R1381 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1445 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W R1447 1-216-081-00 METAL GLAZE 33K 5% 1/10W R1447 1-216-085-00 METAL GLAZE 33K 5% 1/10W R1448 1-216-085-00 METAL GLAZE 33K 5% 1/10W   | R 1367<br>R 1368<br>R 1369<br>R 1370<br>R 1371 | 1-216-057-00<br>1-216-059-00<br>1-216-051-00<br>1-216-105-00<br>1-216-113-00 | METAL GLAZE   | 220K                                 | 5%<br>5%<br>5%<br>5%          | 1/10W                                     |   | R1434<br>R1435<br>R1436                   | 1-1                             | 216-055-00<br>216-073-00                                      | METAL<br>METAL                            | GLAZE                                     | 1.8K<br>10K                       | 5%<br>0.50%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R1377 1-216-055-00 METAL GLAZE 1.8K 5% 1/10W R1378 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R1379 1-216-037-00 METAL GLAZE 330 5% 1/10W R1380 1-216-645-11 METAL CHIP 560 0.50% 1/10W R1381 1-216-647-11 METAL CHIP 680 0.50% 1/10W R1381 1-216-647-11 METAL CHIP 560 0.50% 1/10W R1381 1-216-647-11 METAL CHIP 680 0.50% 1/10W R1381 1-216-647-11 METAL CHIP 680 0.50% 1/10W R1383 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R1448 1-216-085-00 METAL GLAZE 33K 5% 1/10W R1383 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R1448 1-216-085-00 METAL GLAZE 33K 5% 1/10W R1448  |  |  | METAL GLAZE<br>METAL GLAZE<br>METAL CHIP                                | 3.9K<br>150K<br>560                  | 0.507                         | 1/10W<br>1/10W<br>1/10W                   |   | R1438<br>R1439<br>R1440<br>R1441          | 1-2<br>1-2<br>1-2<br>1-2        | 216-073-00<br>216-059-00<br>216-041-00                        | METAL<br>METAL<br>METAL                   | . GLAZE<br>. GLAZE<br>. GLAZE             | 10K<br>2.7K<br>470                | 5%                            | 1/10W<br>1/10W<br>1/10W          |        |
| R1383 1-216-681-11 METAL CHIP 18K 0.50% 1/10W  | R 1377<br>R 1378<br>R 1379<br>R 1380           | 1-216-055-00<br>1-216-065-00<br>1-216-037-00<br>1-216-645-11                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL CHIP                 | 1.8K<br>4.7K<br>330<br>560           | 5%<br>5%<br>5%<br>0.50%       | 1/10W<br>1/10W<br>1/10W<br>1/10W          |   | R1442<br>R1443<br>R1444<br>R1445          | 1-1<br>1-1<br>1-1               | 216-073-00<br>216-013-00<br>216-057-00<br>216-071-00          | METAL<br>METAL<br>METAL<br>METAL          | GLAZE GLAZE GLAZE GLAZE                   | 10K<br>33<br>2.2K<br>8.2K         |                               | 1/10W<br>1/10W<br>1/10W<br>1/10W |        |
|  | R 1382<br>R 1383<br>R 1384                     | 1-216-073-00<br>1-216-681-11<br>1-216-091-00                                 | METAL GLAZE<br>METAL CHIP<br>METAL GLAZE                                | 10K<br>18K<br>56K                    | 5%<br>0.50%                   | 1/10W<br>1/10W<br>1/10W                   |   | R1447<br>R1448<br>R1449                   | 1-1<br>1-1<br>1-1               | 216-081-00<br>216-085-00<br>216-057-00                        | METAI<br>METAI<br>METAI                   | GLAZE<br>GLAZE                            | 22K<br>33K<br>2.2K                | 5%                            | 1/10W<br>1/10W<br>1/10W          |        |

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.

# A (PVM-1351Q/1354Q)

| REF.NO.  | PART NO.   | DESCRIPTION   |                                     |                                     |   | REMARK | REF.NO.                                   | PART NO.   | DESCRIPTION  |                                     |  |   | REMARK |
|--|--|---|-------------------------------------|-------------------------------------|---|--------|---|--|--|-------------------------------------|--|---|--------|
| R 1452<br>R 1453<br>R 1454                     | 1-216-093-00<br>1-216-085-00<br>1-216-013-00<br>1-216-065-00<br>1-216-113-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 68K<br>33K<br>33<br>4.7K<br>470K    | 5%<br>5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        |   | 1-216-355-11<br>1-216-007-00<br>1-216-029-00<br>1-249-400-11                                 | METAL GLAZE  | 3.3<br>18<br>150<br>39<br>1.2       | 5%<br>5%<br>5%                         |   | F<br>F |
| R 1 458<br>R 1 459                             | 1-216-129-00<br>1-216-089-91<br>1-216-085-00<br>1-216-133-00<br>1-216-097-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 2.2M<br>47K<br>33K<br>3.3M<br>100K  | 5%                                  | 1/10W                                     |        | R1525                                     | 1-216-083-00   | METAL GLAZE  | 120<br>27K                          | 5%<br>5%                               | 1W<br>1/10W<br>1/10W<br>1/4W<br>1W        | F      |
| R1461<br>R1462<br>R1463<br>R1464<br>R1465      | 1-216-645-11<br>1-216-645-11<br>1-216-645-11<br>1-216-057-00<br>1-216-097-00 | METAL CHIP<br>METAL CHIP<br>METAL CHIP<br>METAL GLAZE<br>METAL GLAZE    | 560<br>560<br>560<br>2.2K<br>100K   | 0.50%<br>0.50%<br>0.50%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1529<br>R1530<br>R1531<br>R1532<br>R1533 | 1-202-829-11<br>1-216-115-00<br>1-247-697-11<br>1-216-059-00                                 | METAL GLAZE CARBON METAL OXIDE SOLID METAL GLAZE CARBON METAL GLAZE CARBON METAL CHIP  CARBON METAL CHIP                                   | 8.2K<br>560K<br>56<br>2.7K<br>560   | 20%<br>5%<br>5%                        | 1/2W<br>1/10W<br>1/4W<br>1/10W<br>1/4W    | F      |
| R 1467<br>R 1468<br>R 1469                     | 1-216-055-00<br>1-216-073-00<br>1-249-438-11<br>1-216-057-00<br>1-216-057-00 | METAL GLAZE<br>METAL GLAZE<br>CARBON<br>METAL GLAZE<br>METAL GLAZE      | 1.8K<br>10K<br>56K<br>2.2K<br>2.2K  | 5%<br>5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/4W<br>1/10W<br>1/10W  |        | R1534<br>N⊒R1535 A<br>N⊒R1536 A           | 1-249-389-11   | METAL CHIP   | 2.2K                                | 0.50%                                  | 1/10W                                     |        |
| R1473  | 1-216-049-00<br>1-216-085-00<br>1-216-081-00<br>1-216-687-11<br>1-216-677-11 | METAL GLAZE<br>METAL GLAZE<br>METAL CHIP                                | 1 K<br>33 K<br>22 K<br>33 K<br>12 K | 5%<br>5%<br>5%<br>0.50%<br>0.50%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1538<br>R1539<br>R1540<br>R1541          | 1-216-073-00<br>1-216-689-11<br>1-216-105-00<br>1-216-081-00                                 | CARBON METAL GLAZE | 10K<br>39K<br>220K<br>22K           | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R1476<br>R1477<br>R1478<br>R1479<br>R1480      | 1-216-063-00<br>1-216-057-00<br>1-216-061-00<br>1-216-295-00<br>1-216-089-91 |   | 3.9K<br>2.2K<br>3.3K<br>0<br>47K    | 5%<br>5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W          |        | R1543<br>R1544<br>R1545<br>R1547          | 1-216-027-00<br>1-216-117-00<br>1-216-101-00<br>1-216-393-00                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL OXIDE   | 120<br>680K<br>150K<br>2.2          | 5% 5% 5%                               | 1/10W<br>1/10W<br>1/10W<br>3W             | F      |
| R 1481<br>R 1482<br>R 1483<br>R 1484           | 1-216-115-00<br>1-216-089-91<br>1-216-089-91<br>1-216-081-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 560K<br>47K<br>47K<br>22K<br>470K   |                                     | 1/10W<br>1/10W<br>1/10W<br>1/10W          |        | R1549<br>R1550<br>R1551<br>R1552          | 1-216-057-00<br>1-260-094-11<br>1-216-105-00<br>1-249-393-11<br>1-216-091-00                 | METAL GLAZE<br>CARBON<br>METAL GLAZE<br>CARBON<br>METAL GLAZE  | 2.2K<br>390<br>220K<br>10<br>56K    | 5%<br>5%                               | 1/10W<br>1/2W<br>1/10W<br>1/4W<br>1/10W   | F      |
| R1485<br>R1486<br>R1487<br>R1488<br>R1489      | 1-216-113-00<br>1-216-121-00<br>1-216-113-00<br>1-216-083-00<br>1-216-069-00 | METAL GLAZE   | 1M<br>470K<br>27K<br>6.8K<br>270    | 5%<br>5%                            | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1553<br>R1554<br>R1555<br>R1556<br>R1557 | 1-216-091-00<br>1-216-059-00<br>1-216-295-00<br>1-216-071-00<br>1-218-760-11                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL CHIP   |                                     | 5%<br>5%<br>0.50%                      |   |        |
| D 1 40 4                                       | 1-216-083-00   | METAL GLAZE   | 270<br>270<br>27K                   | 5%<br>5%                            | 1/10W<br>1/10W<br>1/10W<br>1/10W          |        | R1558<br>R1559<br>R1560<br>R1561<br>R1562 | 1-249-393-11<br>1-249-393-11<br>1-249-393-11<br>1-216-049-00<br>1-216-681-11<br>1-214-964-00 | CARBON<br>CARBON<br>METAL GLAZE<br>METAL CHIP<br>METAL   | 1 M                                 | 5%<br>0.50%<br>1%                      |   | F      |
| R 1495<br>R 1497<br>R 1498<br>R 1499<br>R 1500 | 1-216-089-91<br>1-216-113-00<br>1-216-057-00<br>1-216-057-00<br>1-216-647-11 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP              | 47K<br>470K<br>2.2K<br>2.2K<br>680  | 5%<br>5%<br>5%                      | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1563<br>R1564<br>R1567<br>R1568<br>R1569 | 1-214-964-00<br>1-216-681-11<br>1-216-089-91<br>1-216-081-00<br>1-216-073-00                 | METAL CHIP<br>METAL GLAZE<br>METAL GLAZE   | 1M<br>18K<br>47K<br>22K<br>10K      | 1%<br>0.50%<br>5%<br>5%                | 1/4W<br>1/10W<br>1/10W<br>1/10W<br>1/10W  |        |
| R 1501<br>R 1502<br>R 1503<br>R 1504<br>R 1505 | 1-216-071-00<br>1-260-105-11<br>1-216-063-00<br>1-216-686-11<br>1-247-688-11 | CARBON METAL GLAZE METAL GLAZE METAL CHIP CARBON                        | 8.2K<br>3.3K<br>3.9K<br>30K<br>10   | 5%<br>5%<br>5%<br>0.50%             | 1/10W<br>1/2W<br>1/10W<br>1/10W<br>1/4W   | F      | R1570<br>R1571<br>R1572<br>R1573<br>R1574 | 1-216-073-00<br>1-216-103-91<br>1-216-101-00<br>1-216-073-00<br>1-216-041-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  | 10K<br>180K<br>150K<br>10K<br>470   | 5%<br>5%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R 1506<br>R 1507<br>R 1508<br>R 1509<br>R 1510 | 1-216-037-00<br>1-216-065-00<br>1-216-689-11<br>1-249-439-11<br>1-216-077-00 | METAL GLAZE   | 330<br>4.7K<br>39K<br>68K           | 5%<br>5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/4W           |        | R1575<br>R1576<br>R1577<br>R1578<br>R1579 | 1-216-025-00<br>1-216-025-00<br>1-216-025-00<br>1-216-065-00<br>1-216-689-11                 | METAL GLAZE<br>METAL GLAZE   | 100<br>100<br>100<br>4.7K<br>39K    | 55%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R 1511<br>R 1512<br>R 1513<br>R 1514           | 1-216-360-11<br>1-216-647-11<br>1-247-752-11<br>1-247-711-11                 | METAL OXIDE<br>METAL CHIP<br>CARBON<br>CARBON                           | 15K<br>8.2<br>680<br>1K<br>680      | 5%<br>5%                            | 1/10W<br>1W<br>1/10W<br>1/2W<br>1/4W      | F      | R2300<br>R2301<br>R2302<br>R2303<br>R2304 | 1-216-065-00<br>1-216-065-00<br>1-216-671-11<br>1-216-093-00<br>1-216-105-00                 | METAL GLAZE<br>METAL CHIP<br>METAL GLAZE   | 4.7K<br>4.7K<br>6.8K<br>68K<br>220K | 5%<br>5%<br>0.50%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R 1515<br>R 1516<br>R 1518                     |  | CARBON  | 1.2<br>150K<br>470                  | 5%                                  | 1 W<br>1 / 4 W<br>1 W                     | F      | R2305                                     | 1-216-085-00<br>1-216-089-91   | METAL GLAZE  | 33K<br>47K                          | 5%<br>5%                               | 1/10W<br>1/10W                            |        |

The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

| REF.NO. PART NO. DESCRIPTION   |  | REMARK | REF.NO.                 | PART NO.                                     | DESCRIPTION                               |                            |                            |                                  | REMARK |
|--|--|--------|-------------------------|--|---|----------------------------|----------------------------|----------------------------------|--------|
| R2307 1-216-033-00 METAL GLAZE<br>R2308 1-216-103-91 METAL GLAZE   | 220 5% 1/10W<br>180K 5% 1/10W  |        | R2372                   | 1-216-113-00                                 | METAL GLAZE                               | 470K                       | 5%                         | 1/10W                            |        |
| R2308 1-216-103-91 METAL GLAZE<br>R2309 1-216-049-00 METAL GLAZE<br>R2310 1-216-095-00 METAL GLAZE<br>R2311 1-216-073-00 METAL GLAZE | 1K 5% 1/10W<br>82K 5% 1/10W<br>10K 5% 1/10W  |        | R2374<br>R2375<br>R2376 | 1-216-097-00<br>1-216-089-91                 | METAL GLAZE<br>METAL GLAZE                | 100K<br>47K                | 5%<br>5%                   | 1/10W<br>1/10W<br>1/10W          |        |
| R2312 1-216-053-00 METAL GLAZE<br>R2313 1-216-049-00 METAL GLAZE   | 1.5K 5% 1/10W  |        | R2377<br>R2378          | 1-216-033-00<br>1-216-089-91                 | METAL GLAZE<br>METAL GLAZE                | 220<br>47K                 | 5%<br>5%                   | 1/10W<br>1/10W                   |        |
| R2313 1-216-049-00 METAL GLAZE<br>R2314 1-216-645-11 METAL CHIP<br>R2315 1-216-679-11 METAL CHIP<br>R2316 1-216-081-00 METAL GLAZE   | 560 0.50% 1/10W<br>15K 0.50% 1/10W   |        | R2379<br>R2380          | 1-216-033-00<br>1-216-089-91                 | METAL GLAZE<br>METAL GLAZE                | 220<br>47K                 | 5%<br>5%                   | 1/10W<br>1/10W                   |        |
| R2317 1-216-049-00 METAL GLAZE   | 1K 5% 1/10W  |        | R2382<br>R2383          | 1-216-089-91<br>1-216-089-91<br>1-216-033-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 47K<br>47K<br>220          | 5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W          |        |
| R2318 1-216-069-00 METAL GLAZE<br>R2319 1-216-093-00 METAL GLAZE<br>R2320 1-216-677-11 METAL CHIP                                    | 6.8K 5% 1/10W<br>68K 5% 1/10W<br>12K 0.50% 1/10W   |        | R2384<br>R2385          | 1-216-689-11                                 | METAL GLAZE                               | 39K                        | 5%<br>5%                   | 1/10W<br>1/10W                   |        |
| R2321 1-216-057-00 METAL GLAZE R2322 1-216-065-00 METAL GLAZE  | 2.2K 5% 1/10W  |        | R2386<br>R2387          | 1-216-073-00<br>1-216-073-00<br>1-216-073-00 | METAL GLAZE<br>METAL GLAZE                | 10K                        | 5%                         | 1/10W<br>1/10W<br>1/10W          |        |
| R2322 1-216-065-00 METAL GLAZE<br>R2323 1-216-683-11 METAL CHIP<br>R2324 1-216-073-00 METAL GLAZE<br>R2325 1-216-063-00 METAL GLAZE  | 22K 0.50% 1/10W<br>10K 5% 1/10W  |        | R2389                   | 1-216-033-00                                 | METAL GLAZE                               | 220                        | 5%                         | 1/10W                            |        |
| R2325 1-216-063-00 METAL GLAZE<br>R2326 1-216-041-00 METAL GLAZE   | 470 5% 1/10W   |        | R2391<br>R2392          | 1-216-647-11<br>1-216-647-11<br>1-216-073-00 | METAL CHIP<br>METAL CHIP<br>METAL GLAZE   | 680<br>10K                 | 0.50%<br>0.50%<br>5%       | 1/10W                            |        |
| R2327 1-216-059-00 METAL GLAZE<br>R2328 1-216-049-00 METAL GLAZE<br>R2329 1-216-059-00 METAL GLAZE<br>R2330 1-216-049-00 METAL GLAZE | 2.7K 5% 1/10W<br>1K 5% 1/10W<br>2.7K 5% 1/10W  |        | R2393                   | 1-216-073-00                                 | METAL GLAZE                               | 10K                        | 5%<br>5%                   | 1/10W<br>1/10W                   |        |
| R2330 1-216-049-00 METAL GLAZE<br>R2331 1-216-059-00 METAL GLAZE   | 1K 5% 1/10W<br>2.7K 5% 1/10W   |        | R2396<br>R2397<br>R2398 | 1-216-041-00<br>1-216-113-00<br>1-216-109-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 470<br>470K                | 5%<br>5%                   | 1/10W<br>1/10W<br>1/10W          |        |
| R2332 1-216-049-00 METAL GLAZE<br>R2333 1-216-089-91 METAL GLAZE<br>R2334 1-216-041-00 METAL GLAZE                                   | 1K 5% 1/10W<br>47K 5% 1/10W<br>470 5% 1/10W  |        | R2399                   | 1-216-073-00                                 | METAL GLAZE                               | 10K                        | 5%<br>5%                   | 1/10W<br>1/10W                   |        |
| R2334 1-216-041-00 METAL GLAZE<br>R2335 1-216-061-00 METAL GLAZE<br>R2336 1-216-065-00 METAL GLAZE                                   | 3.3K 5% 1/10W<br>4.7K 5% 1/10W   |        | R2502<br>R2551          | 1-216-077-00<br>1-216-091-00                 | METAL GLAZE METAL GLAZE                   | 15K<br>56K                 | 5%<br>5%                   | 1/10W<br>1/10W                   |        |
| R2337 1-216-037-00 METAL GLAZE<br>R2338 1-216-073-00 METAL GLAZE<br>R2339 1-216-037-00 METAL GLAZE                                   | 330 5% 1/10W<br>10K 5% 1/10W   |        | R2553                   | 1-216-083-00                                 | METAL GLAZE                               | 27K                        | 5%                         | 1/10W<br>1/10W                   |        |
| R2340 1-216-073-00 METAL GLAZE<br>R2341 1-216-037-00 METAL GLAZE   | 10K 5% 1/10W<br>330 5% 1/10W   |        | R2556<br>R2557          | 1-216-051-00<br>1-216-067-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 1.8K<br>1.2K<br>5.6K       | 5%<br>5%                   | 1/10W<br>1/10W<br>1/10W          |        |
| R2342 1-216-071-00 METAL GLAZE<br>R2343 1-216-081-00 METAL GLAZE<br>R2344 1-216-121-00 METAL GLAZE                                   | 8.2K 5% 1/10W<br>22K 5% 1/10W  |        | R2558<br>R2559          | 1-216-057-00<br>1-216-039-00                 | METAL GLAZE<br>METAL GLAZE                | 2.2K<br>390                | 5%<br>5%                   | 1/10W<br>1/10W                   |        |
| R2344 1-216-121-00 METAL GLAZE<br>R2345 1-216-681-11 METAL CHIP<br>R2346 1-216-061-00 METAL GLAZE                                    | 220 5% 1/10W 1K 5% 1/10W 1CK 5% 1/10W 1.5K 0.50% 1/10W 2.2K 5% 1/10W 2.7K 5% 1/10W 4.7K 5% 1/10W 4.7K 5% 1/10W 4.7K 5% 1/10W 2.7K 5% 1/10W 2.7K 5% 1/10W 2.7K 5% 1/10W 2.7K 5% 1/10W 3.9K 5% 1/10W 2.7K 5% 1/10W 3.9K 5% 1/10W 3.9K 5% 1/10W 3.9K 5% 1/10W 3.3K 5% 1/10W |        | R2560<br>R2561<br>R2562 | 1-216-069-00<br>1-216-001-00<br>1-216-001-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 6.8K<br>10                 | 5%<br>5%                   | 1/10W<br>1/10W<br>1/10W          |        |
| R2347 1-216-061-00 METAL GLAZE<br>R2348 1-216-061-00 METAL GLAZE   | 3.3K 5% 1/10W<br>3.3K 5% 1/10W   |        | R2563<br>R3301          | 1-216-057-00<br>1-216-073-00                 | METAL GLAZE<br>METAL GLAZE                | 2.2K<br>10K                | 5%<br>5%                   | 1/10W<br>1/10W                   |        |
| R2348 1-216-061-00 METAL GLAZE<br>R2349 1-216-679-11 METAL CHIP<br>R2350 1-216-061-00 METAL GLAZE<br>R2351 1-216-061-00 METAL GLAZE  | 15K 0.50% 1/10W<br>3.3K 5% 1/10W<br>3.3K 5% 1/10W  |        | R3302<br>R3303          | 1-216-065-00<br>1-216-065-00                 | METAL GLAZE                               | 4.7K<br>4.7K               | 5%<br>5%                   | 1/10W<br>1/10W                   |        |
| R2352 1-216-061-00 METAL GLAZE<br>R2353 1-216-041-00 METAL GLAZE   | 3.3K 5% 1/10W<br>470 5% 1/10W  |        | R3305<br>R3306          | 1-216-063-00<br>1-216-063-00                 | METAL GLAZE<br>METAL GLAZE                | 3.3K<br>3.9K               | 5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W          |        |
| 12300 1 210 009 91 MEINE GENZE   | 411 26 1/1UW   |        | R3308<br>R3309<br>R3310 | 1-216-097-00<br>1-216-073-00                 | METAL GLAZE<br>METAL GLAZE                | 100K<br>10K                | 5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W          |        |
| R2358 1-216-025-00 METAL GLAZE   | 82K 5% 1/10W<br>100 5% 1/10W   |        | R3310<br>R3311<br>R3312 | 1-216-049-00<br>1-216-091-00<br>1-216-105-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 1K<br>56K<br>220K          | 5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W          |        |
| R2359 1-216-097-00 METAL GLAZE<br>R2360 1-216-689-11 METAL GLAZE<br>R2361 1-216-099-00 METAL GLAZE                                   | 100 5% 1/10W<br>100K 5% 1/10W<br>39K 5% 1/10W<br>120K 5% 1/10W   |        | R3317<br>R3320          | 1-216-103-91<br>1-216-085-00                 | METAL GLAZE<br>METAL GLAZE                | 180K<br>33K                |                            | 1/10W<br>1/10W                   |        |
| R2362 1-216-081-00 METAL GLAZE<br>R2363 1-216-065-00 METAL GLAZE   | 22K 5% 1/10W<br>4.7K 5% 1/10W  |        | R3333<br>R3334<br>R3335 | 1-216-113-00<br>1-216-073-00<br>1-216-113-00 | METAL GLAZE<br>METAL GLAZE                | 470K<br>10K                | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W                   |        |
| R2364 1-216-025-00 METAL GLAZE<br>R2365 1-216-687-11 METAL CHIP<br>R2366 1-216-067-00 METAL GLAZE                                    | 100 5% 1/10W<br>33K 0.50% 1/10W<br>5.6K 5% 1/10W   |        | R3337<br>R3338          | 1-216-099-00                                 | METAL GLAZE                               | 470K                       | 5%                         | 1/10W                            |        |
| R2367 1-216-093-00 METAL GLAZE   | 68K 5% 1/10W   |        | R3339<br>R3340<br>R3341 | 1-218-759-11<br>1-216-093-00<br>1-216-099-00 | METAL CHIP<br>METAL GLAZE<br>METAL GLAZE  | 200K<br>68K<br>120K<br>27K | 0.50%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R2369 1-216-083-00 METAL GLAZE<br>R2370 1-216-081-00 METAL GLAZE   | 4.7K 5% 1/10W<br>27K 5% 1/10W<br>22K 5% 1/10W<br>1K 5% 1/10W   |        | R3344                   |  | METAL GLAZE                               | 22K                        | 5%<br>5%                   | 1/10W                            |        |
| R2371 1-216-049-00 METAL GLAZE   | 1K 5% 1/10W  |        | ; K3345                 | 1-216-033-00                                 | METAL GLAZE                               | 220                        | 5%                         | 1/10W                            |        |

# A (PVM-1350)

|   |  |   |                                      |                      |   | <u> </u> |                                      |  |  |                                |  |                                      |
|---|--|---|--------------------------------------|----------------------|---|----------|--------------------------------------|--|--|--------------------------------|--|--------------------------------------|
| REF.NO.                                   | PART NO.   | DESCRIPTION   |                                      |                      |   | REMARK   |                                      | PART NO.   | DESCRIPTION  |                                |  | REMARK                               |
| R3346<br>R3347<br>R3348<br>R3349<br>R3350 | 1-216-025-00   | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 100<br>100<br>100<br>100<br>470K     | 5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |          | 1                                    |  | VIBRATOR, CERAI<br>VIBRATOR, CRYS'<br>OSCILLATOR, CR'                                  | TAL<br>YSTAL                   | ******                                 | ******                               |
| R3351<br>R3355<br>R3356<br>R3357<br>R3358 | 1-216-119-00<br>1-216-089-91<br>1-216-051-00<br>1-216-051-00<br>1-216-051-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 820K<br>47K<br>1.2K<br>1.2K<br>1.2K  | 5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |          |                                      | 1-540-044-11<br>*4-030-359-01  | HEAT SINK, H.  | ***                            | 350)                                   |                                      |
| R3359<br>R3360<br>R3361<br>R3362<br>R3363 | 1-216-081-00<br>1-216-073-00<br>1-216-089-91<br>1-216-049-00<br>1-216-049-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 22K<br>10K<br>47K<br>1K<br>1K        | 5%%<br>5%%<br>5%%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |          |                                      | 4-363-414-00   | PLATE (CF), SH   |                                |  |                                      |
|   |  | WETAL CLATE   | 107                                  | E W                  | 1 /104                                    |          | -                                    | < RAN  | D PASS FILTER>   |                                |  |                                      |
| R3364<br>R3365<br>R3376<br>R3377          | 1-216-073-00<br>1-216-081-00<br>1-216-081-00<br>1-216-107-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 10K<br>22K<br>22K<br>270K            | 5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W          |          | BPF 400                              |  | FILTER, BAND P   | ASS                            |  |                                      |
| R3378                                     | 1-216-115-00   | METAL GLAZE   | 560K                                 |                      | 1/10W                                     |          | 1                                    | <caf< td=""><td>PACITOR</td><td></td><td></td><td></td></caf<>               | PACITOR  |                                |  |                                      |
| R3381<br>R3382<br>R3383<br>R3384<br>R3385 | 1-216-041-00<br>1-216-647-11<br>1-216-069-00<br>1-216-063-00<br>1-216-057-00 | METAL GLAZE<br>METAL CHIP<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  |                                      | 5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |          | C105<br>C106<br>C114<br>C115<br>C116 | 1-163-251-11<br>1-163-031-11<br>1-163-031-11                                 | CERAMIC CHIP I<br>CERAMIC CHIP I<br>CERAMIC CHIP C<br>CERAMIC CHIP C<br>CERAMIC CHIP C | 100PF<br>1.01MF<br>1.01MF      | 5%<br>5%                               | 50 V<br>50 V<br>50 V<br>50 V<br>50 V |
| R3386<br>R3390<br>R3394<br>R3395<br>R3396 | 1-216-057-00<br>1-216-089-91<br>1-249-417-11                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>CARBON<br>METAL GLAZE      | 2.2K<br>2.2K<br>47K<br>1K<br>470     | 5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W<br>1/4W<br>1/10W  |          | C117<br>C118<br>C119<br>C121<br>C123 | 1-163-031-11<br>1-163-125-00<br>1-165-319-11<br>1-163-237-11<br>1-165-319-11 | CERAMIC CHIP C<br>CERAMIC CHIP C<br>CERAMIC CHIP 2                                     | 220PF<br>3.1MF<br>27PF         | 5%<br>5%                               | 50 V<br>50 V<br>50 V<br>50 V<br>50 V |
| R3397<br>R3398<br>R4401<br>R4402<br>R4404 | 1-216-101-00<br>1-216-085-00<br>1-216-113-00                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 470<br>150K<br>33K<br>470K<br>10K    |                      | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |          | C124<br>C132<br>C133<br>C134<br>C135 | 1-163-251-11<br>1-163-141-00<br>1-163-251-11<br>1-163-251-11<br>1-163-251-11 | CERAMIC CHIP (<br>CERAMIC CHIP<br>CERAMIC CHIP   | 0.001MF<br>100PF<br>100PF      | 55555555555555555555555555555555555555 | 50 V<br>50 V<br>50 V<br>50 V<br>50 V |
| R4405<br>R4405<br>R4408<br>R4409<br>R4410 | 7 1-216-061-00<br>3 1-216-059-00<br>9 1-216-059-00                           | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 5.6K<br>3.3K<br>2.7K<br>2.7K<br>2.7K | 5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |          | C136<br>C141<br>C142<br>C143<br>C144 | 1-163-251-11<br>1-164-161-11<br>1-163-125-00<br>1-165-319-11<br>1-165-319-11 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP   | 0.0022MF<br>220PF<br>0.1MF     | 5%<br>10%<br>5%                        | 50V<br>50V<br>50V<br>50V<br>50V      |
| R441<br>R441<br>R441<br>R441<br>R441      | 2 1-216-113-00<br>3 1-216-295-00<br>4 1-216-295-00<br>5 1-216-295-00         | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE             | 470K<br>470K<br>0<br>0               | 5%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |          | C145<br>C154<br>C155<br>C156<br>C156 | 1-163-037-11<br>1-163-023-00<br>1-163-019-00                                 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP           | 0.022MF<br>0.015MF<br>0.0068MF | 10%<br>10%<br>10%<br>10%               | 50V<br>25V<br>50V<br>50V<br>50V      |
|   | 6 1-216-295-00<br>< <i>V!</i><br>1 1-223-102-00                              | ARIABLE RESIST  |                                      | 5%<br>In 120         | 1/104                                     | i        | C158<br>C159<br>C161<br>C162<br>C164 | 1-163-037-11<br>1-124-477-11<br>1-163-141-00                                 | ELECT<br>CERAMIC CHIP  | 0.022MF<br>47MF<br>0.001MF     | 10%<br>10%<br>20%<br>5%                | 25V<br>25V<br>16V<br>50V<br>50V      |
| NYJU                                      | 1 1-225-102-00   | , RES, ADS, W   | INEWOOD                              | 10 120               |   |          | i                                    |  |  |                                |  | 507                                  |
| T300                                      |  | RANSFOMER>  |                                      |                      |   |          | C165<br>C166<br>C167<br>C168         | 1-164-004-1<br>1-124-472-1<br>1-124-472-1                                    | CERAMIC CHIP LELECT LELECT   | 0.1MF<br>470MF<br>470MF        | 10%<br>20%<br>20%                      | 25V<br>10V<br>10V                    |
| 7500                                      |  | 1 TRANSFORMER   | , FERRI                              | ITE (HI<br>Flybac    | O <b>T</b> )<br>CK                        |          | C169                                 | 1-164-232-1  | CERAMIC CHIP  CERAMIC CHIP   | 0.01MF<br>100PF                | 10%<br>5%                              | 50V<br>50V                           |
|   | <b>(</b> †   | HERMISTOR>  |                                      |                      |   |          | C172                                 |  |  |                                | 5%<br>5%                               | 50V<br>50V                           |
| TH50                                      | 00 1-807-970-1   |   |                                      |                      |   |          | C200<br>C201                         | 1-124-927-1  | 1 ELECT  | 4.7MF<br>0.047MF               | 20%<br>10%                             | 5 O V<br>1 O O V                     |
|   | <0   | RYSTAL>   |                                      |                      |   |          | C202<br>C203<br>C204                 | 1-124-927-1  | 1 ELECT  | 0.0047MF<br>4.7MF<br>10MF      | 10%<br>20%<br>20%                      | 50V<br>50V<br>50V                    |

The components identified by shading and mark  $\, \Delta \,$  are criti-

Replace only with part number specified.

cal for safety.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

| REF.I                    | NO.         | PART NO.   | DESCRIPTION  |                              |                         | REMARK                   | REF.NO.                              | PART NO.   | DESCRIPTION  |                     | REMARK                   |
|--------------------------|-------------|--|--|------------------------------|-------------------------|--------------------------|--------------------------------------|--|--|---------------------|--------------------------|
| C20                      | 5 :         | 1-124-360-00<br>1-126-375-11   | ELECT<br>ELECT   | 1000MF<br>100MF              | 20%<br>20%              | 16V<br>25V               | C399                                 | 1-124-477-11   |  |                     | 25V                      |
| C20'<br>C20'<br>C20'     | 7<br>8<br>9 | 1-124-360-00<br>1-126-375-11<br>1-124-478-11<br>1-124-907-11<br>1-124-927-11   | ELECT<br>ELECT<br>ELECT  | 100MF<br>10MF<br>4.7MF       | 20%<br>20%<br>20%       | 50Y                      | C400<br>C401<br>C402                 | 1-164-232-11<br>1-164-346-11<br>1-124-910-11                 | CERAMIC CHIP O.OIMF CERAMIC CHIP IMF ELECT 47MF CERAMIC CHIP O.OIMF                  | 10%<br>20%          | 50V<br>16V<br>- 50V      |
| C30-<br>C30              | 4           | 1-164-004-11   | CERAMIC CHIP   | 0.1MF                        | 10%                     |                          | C403<br>C406                         | 1-164-232-11<br>1-124-916-11                                 | CERAMIC CHIP 0.01MF<br>ELECT 22MF  | 10%<br>20%          | 50V<br>50V               |
| C30<br>C31               | 6           | 1-164-004-11<br>1-163-125-00<br>1-163-031-11<br>1-163-809-11<br>1-124-925-11   | CERAMIC CHIP<br>CERAMIC CHIP                                   | 0.01MF<br>0.047MF            | 10%                     | 50V<br>25V               | C407<br>C408<br>C409                 | 1-164-232-11   | ELECT 47MF<br>CERAMIC CHIP 0.01MF<br>CERAMIC CHIP 0.01MF                             | 20%<br>10%          | 25V<br>50V               |
| C31                      | 2<br>3      | 1-163-145-00   | CERAMIC CHIP   | 0.0015MF                     | 5%                      | 50V                      | C410<br>C411                         | 1-124-916-11   |  | 20%<br>10%          | 50V<br>50V<br>25V        |
| C31<br>C31<br>C31<br>C31 | 4<br>5<br>6 | 1-163-145-00<br>1-163-249-11<br>1-124-907-11<br>1-124-477-11<br>1-124-907-11   | ELECT<br>ELECT<br>ELECT  | 82PF<br>10MF<br>47MF<br>10MF | 57<br>207<br>207<br>207 | 50V<br>50V<br>25V<br>50V | C414<br>C415<br>C416                 | 1-163-031-11<br>1-124-907-11<br>1-164-232-11                 | CERAMIC CHIP O.OIMF<br>ELECT 10MF<br>CERAMIC CHIP O.OIMF                             | 20%<br>10%          | 50V<br>50V<br>50V        |
| C32<br>C34               | 6           | 1-164-004-11   | CERAMIC CHIP   | 0.1NF                        | 10%                     | 25V                      | C417<br>C418                         | 1-164-232-11<br>1-164-182-11                                 | CERAMIC CHIP 0.01MF<br>CERAMIC CHIP 0.0033MF   | 10%                 | 50V<br>50V               |
| C34<br>C35<br>C35        | 9<br>0<br>2 | 1-164-004-11<br>1-163-031-11<br>1-163-141-00<br>1-163-141-00<br>1-163-031-11<br>1-165-319-11<br>1-163-121-00<br>1-124-903-11<br>1-124-927-11<br>1-163-031-11 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP                   | 0.001MF<br>0.001MF<br>0.01MF | 5%<br>5%                | 50V<br>50V<br>50V        | C419<br>C420<br>C421                 | 1-163-809-11<br>1-164-222-11                                 | ELECT 470MF<br>CERAMIC CHIP 0.047MF<br>CERAMIC CHIP 0.22MF                           | 10%                 | 10V<br>25V<br>25V        |
| C35<br>C35               | 3           | 1-165-319-11<br>1-163-121-00   | CERAMIC CHIP<br>CERAMIC CHIP                                   | 0.1MF<br>150PF               | 5%                      | 50V<br>50V               | C422                                 | 1-124-903-11<br>1-163-809-11                                 | ELECT 1MF<br>CERAMIC CHIP 0.047MF  | 20%<br>10%          | 50V<br>25V               |
| C35<br>C35<br>C35        | 5<br>6<br>8 | 1-124-903-11<br>1-124-927-11<br>1-163-031-11   | ELECT<br>ELECT<br>CERAMIC CHIP                                 | 1MF<br>4.7MF<br>0.01MF       | 20%<br>20%              | 50V<br>50V<br>50V        | C424<br>C425<br>C426                 | 1-163-031-11   | CERAMIC CHIP 47PF  |                     | 25V<br>50V<br>50V<br>50V |
| C35<br>C36               | 9           | 1-124-477-11<br>1-164-232-11   | ELECT<br>CERAMIC CHIP  | 47MF<br>0.01MF               | 20%<br>10%              | 25V<br>50V               | 1428                                 | 1-124-119-00   | ELECT 330MF  | 20%                 | 16V                      |
| C36<br>C36<br>C36        | 2           | 1-124-477-11<br>1-164-232-11<br>1-163-031-11<br>1-163-031-11<br>1-163-099-00   | CERAMIC CHIP<br>CERAMIC CHIP                                   | 0.01MF<br>0.01MF<br>18PF     | 5%                      | 50V<br>50V<br>50V        | C429<br>C430<br>C431<br>C432         | 1-163-031-11<br>1-124-119-00<br>1-165-319-11<br>1-164-004-11 | CERAMIC CHIP 0.1MF   | 20%<br>10%          | 50V<br>16V<br>50V<br>25V |
| C36<br>C36<br>C36        | 55          | 1-163-031-11<br>1-106-343-00<br>1-163-031-11<br>1-163-031-11<br>1-124-907-11   | CERAMIC CHIP MYLAR CERAMIC CHIP                                | 0.01MF<br>0.001MF            | 10%                     | 50V<br>100V<br>50V       | C433                                 | 1-163-235-11   |  |                     | 50 <b>V</b>              |
| C36                      | 57<br>58    | 1-163-031-11<br>1-124-907-11   | CERAMIC CHIP<br>ELECT  | 0.01MF<br>10MF               | 20%                     | 50V<br>50V               | C435<br>C436                         | 1-163-089-00<br>1-164-004-11                                 | CERAMIC CHIP 0.01MF<br>CERAMIC CHIP 6PF<br>CERAMIC CHIP 0.1MF<br>CERAMIC CHIP 0.1MF  | 0.25P               | F 50V<br>25V             |
| C36<br>C37               | 69<br>70    | 1-164-298-11<br>1-124-477-11   | CERAMIC CHIP   | 0.15MF<br>47MF               | 10%<br>20%              | 25V<br>25V               | 1438                                 | 1-163-809-11   | CERAMIC CHIP 0.047MF   | 10%                 | 254                      |
| C3,<br>C3,<br>C3,        | 72          | 1-124-477-11<br>1-163-031-11<br>1-163-141-00   | CERAMIC CHIP<br>BLECT<br>BLECT<br>CERAMIC CHIP<br>CERAMIC CHIP | 47MF<br>0.01MF<br>0.001MF    | 20%<br>5%               | 25V<br>50V<br>50V        | C439<br>C440<br>C441<br>C442<br>C443 | 1-163-031-11   | FIFCT 3 3MF  | 20%                 | 25V<br>50V<br>50V<br>25V |
| C3,                      | 74<br>75    | 1-124-903-11   | ELECT<br>CERAMIC CHIE  | 1MF<br>220PF                 | 20%<br>5%               | 50V<br>50V               | C443                                 |  | CERAMIC CHIP 0.047MF<br>CERAMIC CHIP 47PF  |                     | 50V                      |
| C3,<br>C3,<br>C3,        | 77          | 1-124-903-11<br>1-163-125-00<br>1-124-902-00<br>1-163-809-11<br>1-163-809-11   | CERAMIC CHIL   | 0.47MF<br>0.047MF<br>0.047MF | 10%                     | 50V<br>50V<br>25V<br>25V | C444<br>C445<br>C446<br>C447         | 1-163-809-11<br>1-163-089-00                                 | CERAMIC CHIP 0.1MF<br>CERAMIC CHIP 0.047MF<br>CERAMIC CHIP 6PF<br>CERAMIC CHIP 330PF | 10%<br>0.25P        | 50V<br>25V<br>₹ 50V      |
| C3:                      | 80          | 1-163-031-11   | CERAMIC CHIE   | 0.01MF<br>470MF              | 20%                     | 50V<br>10V               | 1 440                                | 1-163-243-11   | CERAMIC CHIP 47PF  | 5%                  | 507                      |
| C3.<br>C3.<br>C3         | 82          | 1-163-031-11<br>1-163-243-11<br>1-124-477-11   | CERAMIC CHII<br>CERAMIC CHII<br>ELECT                          |                              | 5%<br>20%               | 50V<br>50V<br>25V        | C449<br>C450<br>C451                 | 1-163-227-11<br>1-163-809-11<br>1-164-004-11                 | CERAMIC CHIP 0.047MF<br>CERAMIC CHIP 0.1MF   | 0.5PF<br>10%<br>10% | . 25V<br>. 25V           |
| C3<br>C3                 | 84<br>85    | 1-163-249-11<br>1-124-477-11   |  | P 82PF<br>47MF               | 5%<br>20%               | 50V<br>25V               | C452<br>C453                         | 1-163-263-11<br>1-163-031-11                                 | CERAMIC CHIP 330PF<br>CERAMIC CHIP 0.01MF  | 5%                  | 50V<br>50V               |
| C3<br>C3<br>C3           | 86<br>87    | 1-124-907-11<br>1-163-141-00<br>1-124-907-11   | ELECT<br>CERAMIC CHI   | 10MF<br>P 0.001MF<br>10MF    | 20%<br>5%<br>20%        | 50V<br>50V<br>50V        | C454<br>C455<br>C456                 | 1-163-243-11<br>1-163-263-11<br>1-163-089-00                 | CERAMIC CHIP 330PF   | 5%<br>5%<br>0. 25P  | 50V<br>50V<br>F 50V      |
| C3<br>C3                 | 90 -        | 1-163-243-11<br>1-124-477-11   | CERAMIC CHI  |                              | 5%<br>20%               | 50V<br>25V               | C457<br>C458                         | 1-163-031-11<br>1-163-249-11                                 |  | 5%                  | 50V<br>50V               |
| (3<br>(3<br>(3           | 92<br>93    | 1-164-298-11<br>1-164-298-11   | CERAMIC CHI  | P 0.15MF                     | 10%<br>10%              | 25V<br>25V               | C459<br>C460                         | 1-165-319-11<br>1-164-004-11                                 | CERAMIC CHIP 0.1MF   | 10%                 | 50V<br>25V               |
| C3                       | 95          | 1-124-477-11   | CERAMIC CHI  | P 22PF                       | 20%<br>5%               | 25V<br>50V               | C461<br>C462<br>C463                 | 1-163-119-00<br>1-163-031-11<br>1-163-031-11                 | CERAMIC CHIP 0.01MF  | 5%                  | 50V<br>50V<br>50V        |
| C3<br>C3<br>C3           | 97          | 1-164-299-11<br>1-124-477-11<br>1-124-477-11   | ELECT  | P 0.22MF<br>47MF<br>47MF     | 10%<br>20%<br>20%       | 25V<br>25V<br>25V        | C464<br>C465                         | 1-164-299-11<br>1-163-097-00                                 | CERAMIC CHIP 0.22MF<br>CERAMIC CHIP 15PF   | 10%<br>5%           | 25V<br>50V               |
|                          |             |  |  |                              |                         |                          |                                      |  |  |                     |                          |

The components identified by shading and mark \(\hat{\Delta}\) are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque & sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

|                                 |  |   |                            |                   |                            |                                      |  |                                    | <u> </u>                                |                          |                              |
|---------------------------------|--|---|----------------------------|-------------------|----------------------------|--------------------------------------|--|------------------------------------|---|--------------------------|------------------------------|
| REF.NO.                         | PART NO.                                     | DESCRIPTION   |                            |                   | REMARK                     | REF.NO.                              | PART NO.   | DESCRIPTION                        |   |                          | REMARK                       |
| C466 1                          | 1-163-119-00                                 | CERAMIC CHIP  | 120PF                      | 5%                | 50V<br>50V                 | C541                                 | 1-124-927-11   | ELECT                              | 4.7MF                                   | 20%                      | 50V                          |
|                                 |  | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP |                            |                   | 25V<br>50V<br>50V          | C542<br>C543<br>C544<br>C545<br>C547 | 1-106-351-00<br>1-106-351-00<br>1-106-367-00<br>1-102-212-00<br>1-163-251-11 | MYLAR<br>MYLAR<br>MYLAR<br>CERAMIC | 0.0022MF<br>0.0022MF<br>0.01MF<br>820PF | 10%<br>10%<br>10%<br>10% | 100V<br>100V<br>100V<br>500V |
| C473                            | 1-163-031-11                                 | CERAMIC CHIP (<br>CERAMIC CHIP (<br>CERAMIC CHIP (                            | 0.01MF<br>0.01MF           |                   | 50V<br>50V<br>50V          |                                      |  |                                    |   | 5%<br>10%                | 50V<br>500V                  |
| C476<br>C477                    | 1-163-031-11<br>1-164-299-11                 | CERAMIC CHIP (  | 0.01MF<br>0.22MF           | 10%               | 50V<br>25V                 | C548<br>C549<br>C550<br>C551         | 1-102-212-00<br>1-124-667-11<br>1-126-163-11<br>1-106-375-12<br>1-126-336-11 | ELECT<br>ELECT<br>MYLAR            | 820PF<br>10MF<br>4.7MF<br>0.022MF       | 20%<br>20%<br>10%        | 50V<br>50V<br>100V           |
| C478<br>C479<br>C482            | 1-124-907-11<br>1-163-121-00                 | ELECT<br>CERAMIC CHIP   | 10MF<br>150PF              | 20%<br>5%         | 50V<br>50V<br>10V          | i                                    |  | ELECT                              | 220MF                                   | 20%                      | 25V<br>50V                   |
| C483<br>C484                    | 1-163-249-11<br>1-163-113-00                 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP                                  | 82PF<br>68PF               | 5%<br>5%          | 50V<br>50V                 | C556<br>C557<br>C558<br>C559         | 1-124-907-11<br>1-106-381-12<br>1-124-903-11<br>1-136-173-00<br>1-136-159-00 | MYLAR<br>ELECT                     | 0.039MF<br>1MF<br>0.47MF                | 10%<br>20%               | 100V<br>50V<br>50V           |
| C485<br>C486                    | 1-163-113-00<br>1-163-249-11                 | CERAMIC CHIP  | 68PF<br>82PF               | 5%<br>5%          | 50V<br>50V                 | 1561                                 |  |                                    |   |                          | 50V                          |
| C487<br>C488<br>C490            | 1-163-235-11<br>1-163-097-00<br>1-164-336-11 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP  | 22PF<br>15PF<br>0.33MF     | 5%<br>5%          | 50V<br>50V<br>25V          | C562<br>C564<br>C565                 | 1-163-249-11<br>1-124-907-11<br>1-124-903-11<br>1-106-367-00<br>1-124-903-11 | ELECT<br>ELECT                     | 10MF<br>1MF                             | 5%<br>20%<br>20%         | 50V<br>50V<br>50V            |
| C491<br>C492                    | 1-164-336-11                                 | CERAMIC CHIP  | 0.33MF<br>0.33MF           |                   | 25V<br>25V                 | C566<br>C568                         |  |                                    |   | 10%<br>20%               | 100V<br>50V                  |
| C493<br>C494                    | 1-104-760-11<br>1-104-760-11                 | CERAMIC CHIP  | 0.047MF<br>0.047MF<br>10MF | 10%<br>10%<br>20% | 50V<br>50V<br>50V          | C569<br>C570<br>C571                 | 1-131-351-00<br>1-124-360-00<br>1-164-232-11                                 | TANTALUM<br>ELECT<br>CERAMIC CHIP  | 4.7MF<br>1000MF<br>0.01MF               | 10%<br>20%<br>10%<br>0   | 25V<br>16V<br>50V            |
|                                 |  | CERAMIC CHIP  |                            |                   | 50V<br>50V                 | C571<br>C572<br>C573                 | 1-104-709-11<br>1-136-173-00   | CERAMIC CHIP<br>ELECT<br>FILM      | 4.7MF<br>0.47MF                         | 0<br>5%                  | 160V<br>50V                  |
| C499<br>C500                    | 1-163-031-11                                 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP                                  | O.DIME                     | 10%<br>10%        | 50V<br>25V<br>50V          | C574<br>C575<br>C576<br>C577         | 1-249-383-11<br>1-163-031-11   | CERAMIC CHIP                       | 0.01MF                                  | 1/4W<br>10%              | F<br>50V<br>500V             |
| C502                            |  |   |                            |                   | 50V                        | C577<br>C578                         | 1-124-907-11<br>1-136-540-11   | CERAMIC<br>ELECT<br>FILM           | 10MF<br>0.82MF                          | 20%<br>5%                | 50V<br>200V                  |
| C504<br>C505                    | 1-163-251-11<br>1-136-175-00<br>1-163-135-00 | CERAMIC CHIP  | 0.068MF<br>560PF           | 5%<br>5%<br>5%    | 50V<br>50V<br>50V          | C579<br>C580                         | 1-126-804-11<br>1-136-756-11   | ELECT<br>FILM                      | 100MF<br>0.24MF                         | 20%<br>5%                | 50V<br>200V                  |
| C506<br>C507                    |  |   |                            |                   | 50V<br>25V                 | C581<br>C582<br>C583                 | 1-126-804-11<br>1-136-756-11<br>1-124-927-11<br>1-102-002-00<br>1-136-569-11 | ELECT<br>CERAMIC<br>FILM           | 4.7MF<br>680PF<br>1.2MF                 | 20%<br>10%<br>5%         | 50V<br>500V<br>200V          |
| C508<br>C509<br>C511            | 1-130-495-00<br>1-124-935-11<br>1-108-700-11 | ELECT<br>MYLAR<br>ELECT<br>MYLAR<br>ELECT                                     | 0.1MF<br>470MF<br>0.047MF  | 5%<br>20%<br>10%  | 50V<br>100V<br>200V        | C584<br>C585                         |  |                                    |   | 20%<br>20%               | 160V<br>250V                 |
| C512<br>C513                    | 1-124-902-00                                 | ELECT   | 0.047MF<br>0.47MF          | 20%               | 50V                        | C586<br>C587<br>C588                 | 1-123-267-00<br>1-124-666-11<br>1-124-557-11<br>1-102-030-00<br>1-124-667-11 | ELECT<br>CERAMIC<br>FLECT          | 1000MF<br>330PF<br>10MF                 | 20%<br>10%<br>20%        | 25 V<br>500 V<br>50 V        |
| C514<br>C515                    | 1-129-718-00<br>1-163-809-11                 | ELECT<br>FILM<br>CERAMIC CHIP<br>CERAMIC<br>CERAMIC CHIP                      | 0.022MF<br>0.047MF         | 10%               | 25V<br>630V<br>25V<br>500V |                                      |  |                                    |   |                          | 500V                         |
| C516<br>C517                    |  |   |                            |                   |                            | 1 1092                               | 1 1 1 2 3 1 9 3 2 1 6 0  | MYLAR<br>ELECT                     | 0.015MF<br>4.7MF                        | 10%<br>20%               | 50V<br>200V<br>160V          |
| C518<br>C519<br>C520            | 1-107-995-51<br>1-163-017-00<br>1-163-257-11 | ELECT<br>CERAMIC CHIP<br>CERAMIC CHIP   | 180PF                      | 0<br>10%<br>5%    | 160V<br>50V<br>50V         | C593                                 | 1-163-229-11   | CERAMIC CHIE                       | 2 12PF                                  | 5%<br>20%                | 50V<br>50V                   |
| C521<br>C522                    | 1-162-114-00<br>1-126-375-11                 | CERAMIC<br>ELECT  | 0.0047MF<br>100MF          | 20%               | 2KV<br>25V                 | C595<br>C596<br>C597                 | 1-126-336-11<br>1-124-478-11<br>1-164-346-11                                 | ELECT                              | 220MF<br>100MF<br>P 1MF                 | 20%<br>20%               | 25V<br>25V<br>16V            |
| C523<br>C525 <u>A</u><br>C526 A | 1-126-801-11<br>1-136-545-11<br>1-162-116-91 | ELECT<br>FILM<br>CERAMIC  | 1MF<br>0.0078MF<br>680PF   | 20%<br>3%<br>10%  | 50V<br>2KV<br>2KV          | C598<br>C599                         | 1-164-346-11<br>1-126-157-11   |                                    | P IMF<br>10MF                           | 20%                      | 16V<br>16V                   |
| C529<br>C530                    | 1-104-789-51<br>1-124-120-11                 | ELECT<br>ELECT  | 0.47MF<br>220MF            | 20%<br>20%        | 50V<br>25V                 | C1300<br>C1302<br>C1303              | 1-124-477-11<br>1-163-133-00   | ELECT<br>CERAMIC CHIL              | 47MF<br>P 470PF                         | 20%<br>5%<br>10%         | 25V<br>50V<br>25V            |
| C531<br>C532                    | 1-124-477-11<br>1-163-031-11                 | CERAMIC CHIP  | 47MF<br>0.01MF             | 20%               | 25V<br>50V                 | C1305                                | 1-124-477-11   | ELECT                              | 47MF                                    | 20%                      | 25V                          |
| C533<br>C534<br>C535            | 1-102-212-00<br>1-123-948-00<br>1-163-125-00 | ELECT   | 820PF<br>22MF<br>220PF     | 10%<br>20%<br>5%  | 500V<br>250V<br>50V        | C1307<br>C1308<br>C1311              | 1-124-907-11<br>1-124-477-11   | ELECT<br>Elect                     | 10MF<br>47MF                            | 20%<br>20%               | 50V<br>50V<br>25V            |
| C537<br>C538<br>C539            | 1-124-913-11<br>1-106-367-00                 | MYLAR   | 470MF<br>0.01MF            | 20%<br>10%        | 50V<br>100V                | C1313<br>C1314                       | 1-124-477-11   | ELECT                              | 47MF                                    | 20%                      | 50V<br>25V                   |
| C539<br>C540                    | 1-130-480-00                                 |   | 0.0056MF                   | 5%<br>5%          | 50V<br>50V                 | C1316                                | 1-163-031-11<br>1-124-477-11   | CERAMIC CHI<br>ELECT               | P 0.01MF<br>47MF                        | 20%                      | 50V<br>25V                   |
|                                 |  |   |                            |                   |                            |                                      |  |                                    |   |                          |                              |

|  | <u></u>   |   |   |            |
|--|---|---|---|------------|
| REF.NO. PART NO.   | *   |   | REF.NO. PART NO. DESCRIPTION  | REMARK     |
| C1318 1-124-477-11   | ELECT 47MF  | 20% 25V<br>10% 25V                                  | C1517 1-126-101-11 ELECT 100MF 20%  | 10V        |
| C1320 1-124-477-11<br>C1321 1-124-477-11<br>C1322 1-124-120-11                       | ELECT 47MF  | 20% 25V<br>20% 25V<br>20% 25V<br>20% 16V            | C1518 1-124-477-11 ELECT 47MF 20%<br>C1519 1-163-037-11 CERAMIC CHIP 0.022MF 10%  | 16V<br>25V |
| C1323 1-163-031-11<br>C1324 1-163-031-11   | CERAMIC CHIP O.O1MF<br>CERAMIC CHIP O.O1MF  | 50V<br>50V  | <connector></connector>   |            |
| C1326 1-124-477-11<br>C1327 1-163-031-11   | CERAMIC CHIP O.OIMF   | 20% 25V<br>50V<br>50V                               | CN101 *1-573-979-11 CONNECTOR, BOARD TO BOARD 11P CN102 *1-564-514-11 PLUG, CONNECTOR 11P CN201 *1-564-506-11 PLUG, CONNECTOR 3P CN301 *1-564-514-11 PLUG, CONNECTOR 11P            |            |
| C1329 1-124-907-11<br>C1330 1-163-031-11   | ELECT 10MF<br>CERAMIC CHIP 0.01MF   | 20% 50V<br>50V                                      | CN302 *1-564-510-11 PLUG, CONNECTOR 7P  |            |
| C1331 1-124-477-11<br>C1332 1-124-477-11<br>C1333 1-124-477-11                       | ELECT 47MF ELECT 47MF ELECT 47MF  |   | CN305 *1-565-504-11 CONNECTOR, ROARD TO BOARD 13P<br>CN401 *1-564-511-51 PLUG, CONNECTOR 8P<br>CN402 *1-564-515-11 PLUG, CONNECTOR 12P<br>CN501 *1-580-798-11 CONNECTOR PIN (DY) 6P |            |
| C1334 1-163-227-11<br>C1335 1-124-477-11   | CERAMIC CHIP 10PF<br>ELECT 47MF   | 0.5PF 50V<br>20% 25V<br>20% 25V                     | CN502 *1-573-964-11 PIN, CONNECTOR (PC BOARD) 6P  |            |
| C1336 1-124-477-11<br>C1338 1-163-031-11<br>C1339 1-163-031-11                       | CERAMIC CHIP O. OIMF  | 50V   | CN503 *1-573-964-11 PIN, CONNECTOR (PC BOARD) 6P<br>CN504 *1-564-508-11 PLUG, CONNECTOR 5P<br>CN505 *1-564-506-11 PLUG, CONNECTOR 3P<br>CN506 *1-564-506-11 PLUG, CONNECTOR 3P      |            |
| C1340 1-163-031-11<br>C1342 1-102-963-00   | CERAMIC CHIP 0.01MF<br>CERAMIC 33PF   | 50V<br>5% 50V                                       | CN506 *1-564-506-11 PLUG, CONNECTOR 3P<br>CN507 *1-535-419-00 TAB, FASTEN (PCB)   |            |
| C1344 1-163-083-00<br>C1345 1-124-907-11<br>C1353 1-163-031-11                       | CERAMIC CHIP O. UIMP  | 50V<br>57<br>50V<br>0.25PF 50V<br>20% 50V<br>50V    | <pre><composition block="" circuit=""> CP303 1-466-162-61 FILTER BLOCK, COM (CFB-4)</composition></pre>   |            |
| C1354 1-163-121-00<br>C1355 1-163-125-00<br>C1356 1-163-235-11                       | CERAMIC CHIP 150PF<br>CERAMIC CHIP 220PF<br>CERAMIC CHIP 22PF                           | 5% 50V<br>5% 50V<br>5% 50V<br>20% 16V<br>20% 25V    | 1-400-102-01 FILIER BLUCK, COM (CFD-4)  |            |
| C1356 1-163-235-11<br>C1357 1-124-119-00   | CERAMIC CHIP 22PF<br>ELECT 330MF  | 5% 50V<br>20% 16V                                   | <diode></diode>   |            |
| C1358 1-124-477-11   | ELECT 47MF  | 20% 25V   | D101 8-719-800-76 D10DE ISS226<br>D102 8-719-800-76 D10DE ISS226  |            |
| C1359 1-163-263-11<br>C1360 1-164-161-11<br>C1363 1-163-235-11<br>C1365 1-163-227-11 | CERAMIC CHIP 330PF CERAMIC CHIP 0.0022MI CERAMIC CHIP 22PF CERAMIC CHIP 10PF ELECT 47MF | 5% 50V<br>10% 50V<br>5% 50V<br>0.5PF 50V<br>20% 25V | D103 8-719-045-70 D10DE ISV230TPH3 D104 8-719-800-76 D10DE ISS226 D105 8-719-800-76 D10DE ISS226  |            |
| C1366 1-124-477-11   | ELECT 47MF  | 20% 25V   | D107 8-719-800-76 D10DE 1SS226<br>D109 8-719-801-78 D10DE 1SS184  |            |
| C1367 1-124-477-11<br>C1372 1-124-477-11   | ELECT 47MF<br>ELECT 47MF  | 20% 25V<br>20% 25V                                  | D110 8-719-404-46 D10DE MA110<br>D112 8-719-404-46 D10DE MA110  |            |
| C1373 1-124-477-11<br>C1374 1-124-477-11   | ELECT 47MF ELECT 47MF ELECT 47MF ELECT 47MF ELECT 4.7MF                                 | 20% 25V<br>20% 25V                                  | D113 8-719-158-07 D10DE RD4.7SB   |            |
|  |   |   | D200 8-719-977-46 DIODE DT713C<br>D300 8-719-025-07 DIODE 1SV232-TPH3   |            |
| C1401 1-136-173-00   | CERAMIC CHIP 0.01MF<br>FILM 0.47MF  | 50V<br>5% 50V                                       | D301 8-719-404-46 D10DE MA110<br>D302 8-719-158-07 D10DE RD4.7SB  |            |
| C1403 1-136-173-00   | CERAMIC CHIP 0.01MF<br>FILM 0.47MF<br>CERAMIC CHIP 0.22MF                               | 50V<br>5% 50V<br>10% 25V                            | D305 8-719-800-76 D10DE 1SS226<br>D307 8-719-404-46 D10DE MA110   |            |
| C1405 1-163-235-11   |   | 5% 50V  | D309 8-719-404-46 D10DE MA110   |            |
| C1406 1-163-090-00<br>C1407 1-163-085-00   | CERAMIC CHIP 7PF<br>CERAMIC CHIP 2PF  | 0.25PF 50V<br>0.25PF 50V                            | D312 8-719-404-46 D10DE MAI10<br>D313 8-719-801-78 D10DE ISS184   |            |
| C1408 1-163-113-00<br>C1500 1-124-473-11   | CERAMIC CHIP 68PF   | 5% 50V<br>20% 10V                                   | D315 8-719-404-46 DLODE MA110   |            |
| C1501 1-124-472-11   | ELECT 470MF   | 20% 10V   | D317 8-719-404-46 D10DE MA110<br>D320 8-719-404-46 D10DE MA110  |            |
| C1502 1-101-821-00<br>C1503 1-164-004-11   | CERAMIC CHIP 0.1MF  | 10% 25V   | D322 8-719-404-46 DIODE MAIIO<br>D323 8-719-404-46 DIODE MAIIO  |            |
| C1504 1-124-907-11<br>C1506 1-124-119-00   |   | 20% 50V<br>20% 16V                                  | D327 8-719-104-34 D10DE 152836  |            |
| C1507 1-163-141-00<br>C1508 1-124-927-11   | CERAMIC CHIP 0.001MF  | 5% 50V<br>20% 50V                                   | D332 8-719-404-46 DIODE MAILO D338 8-719-404-46 DIODE MAILO D345 8-719-104-34 DIODE 152836  |            |
| C1510 1-124-927-11<br>C1511 1-164-182-11   | ELECT 4.7MF   | 20% 50V   | D346 8-719-104-34 D10DE 152836  |            |
| C1512 1-124-927-11   | ELECT 4.7MF   | 20% 50V   | D347 8-719-104-34 D10DE 1S2836<br>D360 8-719-104-34 D10DE 1S2836  |            |
| C1513 1-163-133-00<br>C1514 1-130-477-00   | MYLAR 0.0033M   |   | D361  |            |
| C1515 1-124-907-11<br>C1516 1-163-063-00   | ELECT 10MF<br>CERAMIC CHIP 0.022MF  | 20% 50V<br>10% 50V                                  | D401 8-719-404-46 DIODE MAILO   |            |

|                                      |  |  |        |   |  | <u> </u>   |        |
|--------------------------------------|--|--|--------|---|--|--|--------|
| REF.NO.                              | PART NO.   | DESCRIPTION  | REMARK | REF.NO.   | PART NO.   | DESCRIPTION  | REMARK |
| D404<br>D405<br>D406<br>D407<br>D408 | 8-719-800-76<br>8-719-801-78<br>8-719-404-46<br>8-719-404-46<br>8-719-404-46 | DIODE 1SS226 DIODE 1SS184 DIODE MA110 DIODE MA110 DIODE MA110              |        | IC101<br>IC102<br>IC103<br>IC104<br>IC105                     | 8-759-196-71<br>8-759-168-37<br>8-759-008-48<br>8-759-262-59<br>8-759-196-70 | IC UPD78013YCW-Y03 IC ST24C01B1 IC MC74HC86F IC UPD6451AGT-632-E2 IC MG2358FP-E1 |        |
| D410<br>D411<br>D414<br>D415<br>D416 | 8-719-404-46<br>8-719-801-78<br>8-719-801-78                                 | DIODE MA110<br>DIODE MA110<br>DIODE 1SS184<br>DIODE 1SS184<br>DIODE 1SS184 |        | IC107<br>IC108<br>IC109                                       | 8-759-196-70<br>8-759-042-02<br>8-759-196-70                                 | IC M62358FP-E1 IC M62358FP-E1 IC S-80743AL-A7-S IC M62358FP-E1 IC M62358FP-E1    |        |
| D417<br>D418<br>D421<br>D422<br>D423 | 8-719-801-78<br>8-719-404-46<br>8-719-404-46                                 | DIODE MA110  |        | 1C200<br>1C302<br>1C304<br>1C305                              | 8-759-631-08   | IC AN5265<br>IC LM358D<br>IC XRU4053BF-E2<br>IC M51279FP                         |        |
| D424<br>D425<br>D427<br>D500<br>D501 | 8-719-404-46<br>8-719-800-76<br>8-719-404-46<br>8-719-404-46<br>8-719-977-03 | DIODE 1SS226 DIODE MA110 DIODE MA110 DIODE DTZ5.6B                         |        | IC309<br>IC310<br>IC311<br>IC312                              | 8-759-509-05<br>8-759-711-32   | 1C NJM2245M<br>1C XRU4053BF-E2<br>1C XRU4066BF<br>1C NJM2245M                    |        |
| D502<br>D503<br>D504<br>D505<br>D506 | 8-719-979-80<br>8-719-404-46<br>8-719-901-83<br>8-719-028-72<br>8-719-945-80 | DIODE MA110<br>DIODE 1SS83<br>DIODE RGPO2-17EL-6433<br>DIODE ERCO6-15S     |        | 1C313<br>1C314<br>1C318<br>1C320<br>1C321                     | 8-759-048-09<br>8-759-501-21<br>8-759-509-57<br>8-759-501-21<br>8-759-501-21 | IC MM1148XF<br>IC MM1149XF<br>IC XBU4584BF<br>IC MM1149XF<br>IC MM1149XF         |        |
| D507<br>D508<br>D510<br>D512<br>D513 | 8-719-800-76<br>8-719-302-43   | DIODE EL1Z<br>DIODE UF5406   |        | IC322<br>IC323<br>IC324<br>IC325<br>IC326                     | 8-759-501-21<br>8-759-501-21<br>8-759-501-21<br>8-759-501-21<br>8-759-998-96 | 1C MM1149XF<br>IC MM1149XF<br>IC MM1149XF  |        |
| D514<br>D515<br>D516<br>D517<br>D518 | 8-719-404-46<br>8-719-404-46   | DIODE ERC38-06 DIODE MA110   |        | 1C401<br>1C402  | 8-759-509-05   | IC BA7655AF-E2<br>IC CXA1211M<br>IC XRU4066BF                                    |        |
| D519<br>D520<br>D522<br>D523<br>D524 | 8-719-404-46<br>8-719-801-78<br>8-719-977-05<br>8-719-404-46<br>8-719-200-02 | B DIODE 188184<br>5 DIODE DTZ6.2<br>5 DIODE MA110                          |        | 1C408<br>1C409  | 8-759-998-98<br>8-759-509-05<br>8-759-509-91<br>8-759-998-96                 | IC XRU4U66BF<br>IC XRA10393F<br>IC LM324D  |        |
| D525<br>D526<br>D527<br>D528<br>D529 | 8-719-200-02<br>8-719-404-46<br>8-719-200-03<br>8-719-300-76<br>8-719-200-03 | 6 DIODE MA110<br>2 DIODE 10E-2<br>6 DIODE RH-1A                            |        | 1C410<br>1C411<br>1C412<br>1C413<br>1C500                     | 8-759-932-64<br>8-759-008-92<br>8-759-509-19<br>8-759-509-19<br>8-749-010-07 | IC BU4052BF<br>IC MC14024BF<br>IC XRU4053BF-E2<br>IC XRU4053BF-E2<br>IC H8D7248  |        |
| D530<br>D531<br>D532<br>D533<br>D534 | 8-719-302-4  | 2 DIODE DTZ11B<br>6 DIODE 1SS226<br>3 DIODE EL1Z                           |        | 1 C 5 0 2<br>1 C 5 0 3<br>1 C 5 0 4<br>1 C 5 0 5<br>1 C 5 0 7 | 8 -759-009-51<br>1 8-752-053-21<br>5 8-759-520-07                            | IC MC14538BF<br>IC CXA1211M<br>IC XRA17812T                                      |        |
| D535<br>D536<br>D538                 | 8-719-800-7<br>8-719-800-7   | 6 DIODE 1SS226<br>6 DIODE 1SS226   |        | 10508<br>10509  | 8 8-752-053-21<br>9 8-759-998-98   | IC CXA1211M<br>B IC LM358D   |        |
| D539<br>D540                         | 8-719-404-4  | 6 DIODE MA110  |        | 1   | <c0< td=""><td>NL&gt;</td><td></td></c0<>                                    | NL>  |        |
| DL30                                 | 00 1-415-633-1<br>01 1-415-632-1   | 1 DELAY LINE, Y  |        | L101<br>L102<br>L104<br>L300<br>L305                          | 1-408-609-41<br>1-408-417-00<br>1-410-478-11<br>1-410-478-11<br>1-410-196-11 | O INDUCTOR 47UH<br>INDUCTOR 47UH<br>INDUCTOR 47UH                                |        |
| DL 40                                |  | C>   |        | L308<br>L309<br>L311<br>L312                                  | 1-410-470-1  | I INDUCTOR 10UH<br>I INDUCTOR 10UH   |        |

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark \( \Delta \) are critical for safety.

Replace only with part number specified.

| REF.NO. PART NO.  | DESCRIPTION  | REMARK | REF.NO.                              | PART NO.   | DESCRIPTION  |  |
|---|--|--------|--------------------------------------|--|--|--|
| L314 1-412-011-31<br>L316 1-412-011-31<br>L320 1-410-478-11<br>L401 1-410-478-11<br>L402 1-410-216-31   | INDUCTOR CHIP 27UH INDUCTOR CHIP 27UH INDUCTOR 47UH INDUCTOR 47UH INDUCTOR 47UH INDUCTOR CHIP 100UH INDUCTOR CHIP 100UH INDUCTOR CHIP 100UH INDUCTOR 68UH INDUCTOR 68UH INDUCTOR 22UH INDUCTOR 22UH INDUCTOR 22UH INDUCTOR 24TUH COIL (WITH CORE) 45UH COIL, CHOKE INDUCTOR 18UH INDUCTOR 18UH INDUCTOR 17UH INDUCTOR 27UH COIL, DYNAMIC CONVERSION CHOKE COIL, DUST CORE COIL, DUST CORE COIL, UNTH CORE) 45UH INDUCTOR 3, 9MMH |        | Q322<br>Q325<br>Q326<br>Q327         | 8-729-120-28<br>8-729-120-28<br>8-729-120-28<br>8-729-216-22                 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G                                 |  |
| L403 1-410-216-31<br>L404 1-410-216-31<br>L405 1-408-419-00<br>L406 1-408-419-00<br>L407 1-408-413-00   | INDUCTOR CHIP 100UH INDUCTOR CHIP 100UH INDUCTOR 68UH INDUCTOR 68UH INDUCTOR 22UH  |        | Q330<br>Q331<br>Q333<br>Q341         | 8-729-141-53<br>8-729-216-22<br>8-729-216-22<br>8-729-120-28<br>8-729-920-39 | TRANSISTOR 2SK94-X2X3X4 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 1MT1US                  |  |
| L408 1-408-413-00<br>L409 1-410-214-31<br>L500 1-459-155-00<br>L501 1-407-365-00<br>L502 1-407-365-00   | INDUCTOR 22UH INDUCTOR CHIP 68UH COIL (WITH CORE) 45UH COIL, CHOKE COIL, CHOKE   |        | Q342<br>Q343<br>Q345<br>Q350<br>Q351 | 8-729-920-39<br>8-729-920-39<br>8-729-120-28<br>8-729-120-28<br>8-729-120-28 | TRANSISTOR INTIUS TRANSISTOR INTIUS  TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1633-15L6                    |  |
| L503 1-410-093-11<br>L504 1-410-666-31<br>L505 1-410-671-31<br>L507 1-410-686-11<br>L508 1-412-530-31   | INDUCTOR 33MMH INDUCTOR 18UH INDUCTOR 47UH INDUCTOR 1MMH INDUCTOR 27UH   |        | Q352<br>Q353<br>Q354<br>Q360<br>Q361 | 8-729-120-28<br>8-729-120-28<br>8-729-120-28<br>8-729-907-26<br>8-729-901-06 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR IMX1 TRANSISTOR IMX1 TRANSISTOR DALALAGER |  |
| L509 1-459-075-00<br>L511 1-459-106-00<br>L512 1-459-155-00<br>L513 1-412-447-11<br>L514 1-459-104-00   | COIL, DYNAMIC CONVERSION CHOKE COIL, DUST CORE COIL (WITH CORE) 45UH INDUCTOR 3.9MMH COIL, DUST CORE COIL, DUST CORE COIL, HORIZONTAL LINEARITY INDUCTOR 680UH ON LAMP> LAMP, NEON   |        | Q363<br>Q364<br>Q365<br>Q372         | 8-729-120-28<br>8-729-901-01<br>8-729-901-01<br>8-729-901-01                 | TRANSISTOR 25C1623-L5L6 TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK  |  |
| L515 1-459-059-00<br>L516 A 1-459-760-13<br>L517 1-412-547-21   | COIL, DUST CORE COIL, HORIZONTAL LINEARITY INDUCTOR 680UH  |        | Q401<br>Q402<br>Q403<br>Q404<br>Q405 | 8-729-120-28<br>8-729-120-28<br>8-729-901-01<br>8-729-216-22<br>8-729-216-22 | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK  TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G               |  |
| <nec< td=""><td>ON LAMP&gt;</td><td></td><td>Q406<br/>Q407<br/>Q408</td><td>8-729-120-28<br/>8-729-120-28<br/>8-729-216-22</td><td>TRANSISTOR 2SC1623-151.6<br/>TRANSISTOR 2SC1623-151.6<br/>TRANSISTOR 2SC1623-151.6<br/>TRANSISTOR 2SA1162-G</td><td></td></nec<> | ON LAMP>   |        | Q406<br>Q407<br>Q408                 | 8-729-120-28<br>8-729-120-28<br>8-729-216-22                                 | TRANSISTOR 2SC1623-151.6<br>TRANSISTOR 2SC1623-151.6<br>TRANSISTOR 2SC1623-151.6<br>TRANSISTOR 2SA1162-G                     |  |
| <pre></pre>   | TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTA144EK TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTA144EK TRANSISTOR DTA144EK TRANSISTOR DTA144EK TRANSISTOR 2SC1623-L5L6                                  |        | Q409<br>Q410<br>Q411<br>Q412<br>Q413 | 8-729-216-22<br>8-729-907-26<br>8-729-120-28<br>8-729-216-22<br>8-729-141-53 | TRANSISTOR 2SA1162-G<br>TRANSISTOR IMX1<br>TRANSISTOR 2SC1623-L5L6<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA104-Y2Y3Y4       |  |
| Q107 8-729-901-06<br>Q108 8-729-120-28<br>Q109 8-729-120-28<br>Q110 8-729-120-28<br>Q111 8-729-901-06   | TRANSISTOR DTA144EK TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6  |        | Q414<br>Q415<br>Q416<br>Q417         | 8-729-216-22<br>8-729-216-22<br>8-729-216-22<br>8-729-216-22                 | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G                                 |  |
| Q111 8-729-120-28<br>Q113 8-729-120-28<br>Q114 8-729-119-78<br>Q200 8-729-140-96  | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC2785-HFE TRANSISTOR 2SD774-34  |        | Q419<br>Q420<br>Q421                 | 8-729-120-28<br>8-729-216-22<br>8-729-216-22<br>8-729-901-01                 | TRANSISTOR 2SC1623-L5L6  TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK TRANSISTOR DTC144EK                   |  |
| Q201     8-729-120-28       Q300     8-729-120-28       Q301     8-729-120-28       Q303     8-729-120-28       Q304     8-729-120-28   | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6  |        | Q424<br>Q425<br>Q426                 | 8-729-901-01<br>8-729-901-01<br>8-729-901-01                                 | TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144FK  |  |
| Q305 8-729-120-28<br>Q307 8-729-120-28<br>Q308 8-729-120-28<br>Q309 8-729-216-22<br>Q311 8-729-216-22   | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G  |        | Q428<br>Q429<br>Q430<br>Q431         | 8-729-216-22<br>8-729-216-22<br>8-729-120-28<br>8-729-120-28                 | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SC1623-L5L6<br>TRANSISTOR 2SC1623-L5L6                           |  |
| Q312 8-729-120-28<br>Q313 8-729-216-22<br>Q315 8-729-216-22<br>Q316 8-729-120-28  | TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6  |        | Q433<br>Q434<br>D435                 | 8-729-120-28<br>8-729-901-01<br>8-729-120-28<br>8-729-901-01                 | TRANSISTOR 25C1623-1.51.6 TRANSISTOR DTC144EK  |  |
| 0317 8-729-120-28<br>0318 8-729-216-22<br>0319 8-729-120-28<br>0320 8-729-119-78  | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6   |        | Q437<br>Q438<br>Q439                 | 8-729-901-01<br>8-729-901-01<br>8-729-120-28<br>8-729-216-22                 | TRANSISTOR DTC144EK TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G   |  |
| Q321 8-729-120-28   | TRANSISTOR 2SC2785-HFE<br>TRANSISTOR 2SC1623-L5L6  |        | Q440<br>Q441                         | 8-729-120-28<br>8-729-141-53   | TRANSISTOR 2SC1623-L5L6<br>TRANSISTOR 2SK94-X2X3X4   |  |

|   | PART NO.   |   | REMARK                                    | REF. NO.                             | PART NO.   | DESCRIPTION   |                                    |  | REN  | 1ARK |
|---|--|---|---|--------------------------------------|--|---|------------------------------------|--|--|------|
| Q442<br>Q443<br>Q444<br>Q445<br>Q500      | 8-729-120-28<br>8-729-216-22<br>8-729-120-28<br>8-729-901-01<br>8-729-216-22   | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SD1397-CA TRANSISTOR 2SC2688-LK   |   | R139<br>R140<br>R141<br>R142<br>R143 | 1-216-295-00<br>1-216-033-00<br>1-216-085-00<br>1-216-295-00<br>1-216-295-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 0<br>220<br>33K<br>0               | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W  |      |
| Q503<br>Q504                              | 8-729-313-42<br>8-729-120-28   | TRANSISTOR 2SD1134-C<br>TRANSISTOR 2SC1623-L5L6   |   | R147<br>R149                         | 1-216-295-00   | METAL GLAZE<br>METAL GLAZE  | 0<br>4.7K                          | 5%<br>5%                               | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W  |      |
| Q506<br>Q507<br>Q508<br>Q511<br>Q512      | 8-729-120-28<br>8-729-120-28<br>8-729-216-22<br>8-729-120-28<br>8-729-195-82   | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC2958-L   |   | R153<br>R154<br>R155<br>R157<br>R157 | 1-216-295-00<br>1-216-065-00<br>1-249-434-11<br>1-216-065-00<br>1-216-063-00                 | METAL GLAZE<br>METAL GLAZE<br>CARBON<br>METAL GLAZE<br>METAL GLAZE      | 0<br>4.7K<br>27K<br>4.7K<br>3.9K   | 5%<br>5%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/4W<br>1/10W<br>1/10W   |      |
| Q513<br>Q515<br>Q517<br>Q519<br>Q520      | 8-729-122-03<br>8-729-169-02<br>8-729-901-06<br>8-729-901-01<br>8-729-905-67   | TRANSISTOR 2SA1220A-P TRANSISTOR 2SC2690A-Q TRANSISTOR DTA144EK TRANSISTOR DTC144EK TRANSISTOR 2SD1944-K  |   | R160<br>R162<br>R163<br>R164<br>R165 | 1-216-061-00<br>1-216-065-00<br>1-216-065-00<br>1-216-067-00<br>1-216-295-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 3.3K<br>4.7K<br>4.7K<br>5.6K       | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W  |      |
| Q522<br>Q523<br>Q524<br>Q525<br>Q526      | 8-729-120-28<br>8-729-120-28<br>8-729-119-78<br>8-729-119-76<br>8-729-216-22   | TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC2958-L  TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SD1944-K  TRANSISTOR 2SC1623-L5L6 |   | R167<br>R170<br>R173<br>R175<br>R177 | 1-216-061-00<br>1-216-295-00<br>1-216-295-00<br>1-216-295-00<br>1-216-065-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 3.3K<br>0<br>0<br>0<br>4.7K        | 5%<br>5%<br>5%                         | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W  |      |
| <b>U</b> 527                              | 8-729-120-28   | TRANSISTOR 2SC1623-L5L6   |   | R180                                 | 1-216-295-00   | METAL GLAZE   | 0<br>4 7K                          | 5%<br>5%                               | 1/10₩<br>1/10₩                             |      |
| JR122                                     | <res< td=""><td>SISTOR&gt; METAL GLAZE 0 5%</td><td>1/10W</td><td>R183<br/>R185<br/>R187</td><td>1-216-295-00<br/>1-216-073-00<br/>1-216-061-00</td><td>METAL GLAZE<br/>METAL GLAZE<br/>METAL GLAZE</td><td>0<br/>10K<br/>3.3K</td><td>5%<br/>5%<br/>5%</td><td>1/10W<br/>1/10W<br/>1/10W</td><td></td></res<> | SISTOR> METAL GLAZE 0 5%  | 1/10W                                     | R183<br>R185<br>R187                 | 1-216-295-00<br>1-216-073-00<br>1-216-061-00   | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 0<br>10K<br>3.3K                   | 5%<br>5%<br>5%                         | 1/10W<br>1/10W<br>1/10W                    |      |
| JR123<br>JR302<br>JR306<br>R101           | 1-216-295-00<br>1-216-295-00<br>1-216-295-00<br>1-216-025-00   | METAL GLAZE 0 5%<br>METAL GLAZE 0 5%<br>METAL GLAZE 0 5%<br>METAL GLAZE 100 5%  | 1/10W<br>1/10W<br>1/10W<br>1/10W          | R188<br>R189<br>R190<br>R192         | 1-216-295-00<br>1-216-073-00<br>1-216-049-00<br>1-216-073-00                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 0<br>10K<br>1K<br>10K              | 5%<br>5%<br>5%                         | 1/10W<br>1/10W<br>1/10W<br>1/10W           |      |
| R102<br>R103<br>R104<br>R105<br>R106      | 1-216-025-00<br>1-216-025-00<br>1-216-073-00<br>1-216-059-00<br>1-216-065-00   | METAL GLAZE 100 5% METAL GLAZE 100 5% METAL GLAZE 10K 5% METAL GLAZE 2.7K 5% METAL GLAZE 4.7K 5%  | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R193<br>R195<br>R197<br>R198<br>R199 | 1-216-295-00<br>1-216-071-00<br>1-216-061-00<br>1-216-295-00<br>1-216-295-00                 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE             | 0<br>8.2K<br>3.3K<br>0             | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W  |      |
| R 108<br>R 109<br>R 110<br>R 111<br>R 112 | 1-216-065-00<br>1-216-065-00<br>1-216-073-00<br>1-216-295-00<br>1-216-295-00   | TRANSISTOR 2SA1162-G  TRANSISTOR 2SC1623-L5L6  SISTOR>  METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 100 5% METAL GLAZE 100 5% METAL GLAZE 100 5% METAL GLAZE 100 5% METAL GLAZE 10K 5% METAL GLAZE 10K 5% METAL GLAZE 4.7K 5% METAL GLAZE 4.7K 5% METAL GLAZE 4.7K 5% METAL GLAZE 10K 5% METAL GLAZE 10K 5% METAL GLAZE 0 5%                               | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R200<br>R201<br>R202<br>R203         | 1-216-684-11<br>1-216-049-00<br>1-212-857-00<br>1-260-095-11<br>1-260-072-11<br>1-216-647-11 | METAL CHIP  METAL GLAZE FUSTILE CARBON CARBON                           | 24K<br>1K<br>10<br>470             | 0.50%<br>5%<br>5%                      | 1/10W<br>1/10W<br>1/4W F<br>1/2W           |      |
| R113<br>R114<br>R115<br>R116<br>R117      | 1-216-085-00<br>1-216-295-00<br>1-216-295-00<br>1-218-761-11<br>1-216-089-91   | METAL GLAZE 0 5%<br>METAL CHIP 240K 0.50%   | 1/10W                                     | R205<br>R206<br>R207<br>R208<br>R209 | 1-216-647-11<br>1-216-073-00<br>1-216-065-00<br>1-216-065-00<br>1-216-073-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 10K<br>4.7K<br>4.7K<br>10K         | 5%<br>5%<br>5%                         | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W  |      |
| R118<br>R119<br>R120<br>R121<br>R123      | 1-216-295-00<br>1-216-689-11<br>1-216-295-00<br>1-216-295-00<br>1-216-295-00   | METAL GLAZE 39K 5% METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R210<br>R211<br>R237<br>R302<br>R304 | 1-216-061-00<br>1-249-393-11<br>1-216-089-91<br>1-216-025-00<br>1-216-025-00                 | METAL GLAZE  CARBON METAL GLAZE METAL GLAZE METAL GLAZE                 | 3.3K<br>10<br>47K<br>100<br>100    | 55 55555555555555555555555555555555555 | 1/10W<br>1/4W F<br>1/10W<br>1/10W<br>1/10W |      |
| R125<br>R128<br>R129<br>R130<br>R131      | 1-216-295-00<br>1-216-295-00<br>1-216-295-00<br>1-216-101-00<br>1-216-295-00   | METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 150K 5% METAL GLAZE 0 5%  | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R307<br>R308<br>R312<br>R313<br>R314 | 1-216-115-00<br>1-216-065-00<br>1-216-073-00<br>1-216-649-11<br>1-216-099-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL CHIP<br>METAL GLAZE                 | 560K<br>4.7K<br>10K<br>820<br>120K | 5%<br>5%                               | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W  |      |
| R132<br>R134<br>R136<br>R137<br>R138      | 1-216-065-00<br>1-216-065-00<br>1-216-295-00<br>1-216-065-00<br>1-216-295-00   | METAL GLAZE 4.7K 5%<br>METAL GLAZE 0 5%   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R315<br>R316<br>R317<br>R318         | 1-216-099-00<br>1-216-049-00<br>1-216-057-00<br>1-216-049-00                                 | METAL GLAZE   | 120K<br>1K<br>2.2K<br>1K           | 5%                                     | 1/10W<br>1/10W<br>1/10W<br>1/10W           |      |

| 10C NO 04 DA   |   |                                     |  |        |                                      |  |   |  |   |                                      |        |
|--|---|-------------------------------------|--|--------|--------------------------------------|--|---|--|---|--------------------------------------|--------|
| KEF.NO. PART NO.   | DESCRIPTION   |                                     |  | REMARK | REF.NO.                              | PART NO.   | DESCRIPTION   |  |   |                                      | REMARK |
| R320 1-216-057-00<br>R321 1-216-051-00<br>R322 1-216-035-00<br>R323 1-216-109-00<br>R324 1-216-101-00                      | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 2.2K<br>1.2K<br>270<br>330K<br>150K | 5% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W       |        | K44/                                 | 1-216-049-00<br>1-216-105-00<br>1-216-095-00<br>1-216-069-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 220K<br>82K<br>6.8K                      | 5% 1<br>5% 1<br>5% 1                    | /10W<br>/10W<br>/10W<br>/10W         |        |
| R325 1-216-037-00<br>R326 1-216-033-00<br>R328 1-216-121-00<br>R329 1-216-055-00<br>R330 1-216-089-91                      | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 330<br>220<br>1M<br>1.8K<br>47K     | 5% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W       |        | R449                                 | 1-216-073-00<br>1-216-121-00<br>1-216-037-00<br>1-216-651-11                 | METAL GLAZE<br>METAL CHIP   | 1K<br>10K<br>1M<br>330                   | 5% 1<br>5% 1<br>5% 1<br>5% 1<br>0.50% 1 |                                      |        |
| R331 1-216-093-00<br>R334 1-216-093-00<br>R335 1-216-083-00<br>R336 1-216-065-00<br>R342 1-216-065-00                      | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 681                                 | 5% 1/10W<br>5% 1/10W   |        | R453<br>R455<br>R456<br>R457<br>R458 | 1-216-097-00<br>1-216-085-00<br>1-216-053-00<br>1-216-025-00<br>1-216-113-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE                         | 100K<br>33K<br>1.5K<br>100<br>470K       | 5% 1<br>5% 1                            | /10W<br>/10W<br>/10W<br>/10W<br>/10W |        |
| R345 1-216-063-00<br>R346 1-216-057-00<br>R350 1-216-085-00<br>R366 1-216-065-00<br>R376 1-216-111-00                      | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 3.9K<br>2.2K<br>33K<br>4.7K<br>390K |  |        | R462<br>R463<br>R464                 | 1-216-649-11<br>1-216-073-00<br>1-216-651-11<br>1-216-065-00<br>1-216-065-00 | METAL CHIP<br>METAL CHIP<br>METAL CLAZE<br>METAL GLAZE<br>METAL GLAZE   | 10K                                      | 0.50% 1<br>5% 1                         | /10W<br>/10W                         |        |
| R378 1-216-111-00<br>R382 1-216-107-00<br>R387 1-216-029-00<br>R388 1-216-033-00<br>R393 1-216-073-00                      | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                |                                     | 5% 1/10W<br>5% 1/10W   |        | R466                                 | 1-216-025-00<br>1-216-077-00<br>1-216-121-00<br>1-216-105-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 4.7K<br>4.7K<br>100<br>15K<br>1M<br>220K | 5% 1<br>5% 1                            | /10W<br>/10W<br>/10W<br>/10W         |        |
| R394 1-216-083-00<br>R397 1-216-113-00<br>R398 1-216-105-00<br>R399 1-216-111-00   |   | 27K<br>470K<br>220K<br>390K<br>1.5K |  |        | R470<br>R471<br>R472<br>R473         | 1-216-063-00<br>1-216-069-00<br>1-216-109-00<br>1-216-077-00<br>1-216-121-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 3.9K<br>6.8K<br>330K                     | 5% 1<br>5% 1                            | /10W<br>/10W<br>/10W<br>/10W<br>/10W |        |
| R401 1-216-053-00<br>R402 1-216-053-00<br>R403 1-216-069-00<br>R406 1-216-083-00   | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               |                                     | 5% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W       |        | R474<br>R475<br>R476                 | 1-216-649-11<br>1-216-025-00<br>1-216-061-00                                 | METAL CHIP<br>METAL GLAZE<br>METAL GLAZE                                | 820<br>100<br>3.3K                       | 0.50% 1<br>5% 1<br>5% 1                 | /10W<br>/10W<br>/10W<br>/10W         |        |
| R407 1-216-085-00<br>R408 1-216-689-11<br>R410 1-216-069-00<br>R411 1-216-033-00<br>R412 1-216-089-91                      | METAL CHIP  | 39K                                 | 5% 1/10W<br>0.50% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W    |        | R478<br>R479<br>R480<br>R481         | 1-216-061-00<br>1-216-073-00<br>1-216-085-00<br>1-216-077-00<br>1-216-033-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               |  | 5% 1<br>5% 1<br>5% 1<br>5% 1            | /10W<br>/10W<br>/10W<br>/10W         |        |
| R412 1-216-089-91<br>R413 1-216-668-11<br>R416 1-216-113-00<br>R417 1-216-665-11<br>R418 1-216-667-11<br>R419 1-216-065-00 | METAL GLAZE   | 5.1K<br>470K                        | 5% 1/10W   |        | R482<br>R483<br>R484<br>R485<br>R486 | 1-216-057-00<br>1-216-025-00<br>1-216-651-11<br>1-216-033-00<br>1-216-681-11 | METAL GLAZE<br>METAL GLAZE<br>METAL CHIP<br>METAL GLAZE<br>METAL CHIP   | 220                                      | 0.50% 1                                 | /10W                                 |        |
| R420 1-216-089-11<br>R422 1-216-073-00<br>R423 1-216-073-00  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 4.7K<br>39K<br>10K                  | 0.50% 1/10W<br>0.50% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W |        | R487                                 | 1-216-653-11<br>1-216-073-00<br>1-216-077-00<br>1-216-057-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 1.2K<br>10K<br>15K<br>2.2K               | 5% 1<br>5% 1<br>5% 1                    | /10W<br> /10W<br> /10W               |        |
| R424 1-216-033-00<br>R425 1-216-049-00<br>R426 1-216-039-00<br>R427 1-216-033-00   | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                               | 220<br>1K<br>390<br>220             | 5% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W       |        | R492<br>R493<br>R494<br>R495         | 1-216-061-00<br>1-216-085-00<br>1-216-295-00<br>1-216-085-00<br>1-216-651-11 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP              | 33K<br>0<br>33K                          | 5% 1<br>5% 1                            | 1/10W<br>1/10W<br>1/10W<br>1/10W     |        |
| R428 1-216-097-00<br>R429 1-216-073-00<br>R430 1-216-119-00<br>R431 1-216-097-00<br>R432 1-216-089-91                      | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 100K<br>10K<br>820K<br>100K<br>47K  | 5% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W       |        | R496<br>R497<br>R498<br>R499         | 1-216-073-00<br>1-216-653-11<br>1-216-061-00<br>1-216-033-00                 | METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE                          | 10K                                      | 5% 1<br>0.50% 1<br>5% 1                 | /10W                                 |        |
| R434 1-216-109-00<br>R435 1-216-105-00<br>R436 1-216-113-00<br>R437 1-216-097-00<br>R438 1-216-053-00                      | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 330K<br>220K<br>470K<br>100K        | 5% 1/10W<br>5% 1/10W<br>5% 1/10W<br>5% 1/10W                   |        | R500<br>R502<br>R503<br>R504         | 1-216-689-11<br>1-216-677-11<br>1-216-677-11<br>1-216-111-00                 | METAL CHIP METAL CHIP METAL CHIP METAL GLAZE                            | 12K<br>12K<br>390K                       | 0.50% 1<br>0.50% 1<br>5% 1              | /10W<br> /10W<br> /10W<br> /10W      |        |
| R439 1-216-033-00<br>R440 1-216-049-00<br>R441 1-216-645-11  | METAL GLAZE<br>METAL GLAZE<br>METAL CHIP                                | 220<br>1K<br>560                    | 5% 1/10W<br>5% 1/10W<br>0.50% 1/10W                            |        | R505<br>R506<br>R507                 | 1-216-067-00<br>1-216-073-00<br>1-216-083-00<br>1-216-105-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 5.6K<br>10K<br>27K                       | 5% 1<br>5% 1<br>5% 1                    | /10W<br> /10W<br> /10W               |        |
| R442 1-216-647-11  | METAL CHIP  | 680                                 | 0.50% 1/10W  |        | ¦ R509                               | 1-216-089-91   | METAL GLAZE   | 47K                                      | 5% i                                    | /10W                                 |        |

|                      |  |  |                                    |  |                         |        |                         |   |                      |                               |                         |                      | `                          |                         |               |
|----------------------|--|--|------------------------------------|--|-------------------------|--------|-------------------------|---|----------------------|-------------------------------|-------------------------|----------------------|----------------------------|-------------------------|---------------|
|                      | PART NO.                                     | DESCRIPTION  |                                    |  |                         | REMARK | REF.NO.                 | PART NO.  |                      | DESCRI                        | PTION                   |                      |                            |                         | REMARK        |
| R510<br>R511         | 1-216-097-00<br>1-216-099-00                 | METAL GLAZE<br>METAL GLAZE   | 100K<br>120K                       | 5%<br>5%                               | 1/10W<br>1/10W          |        | R586                    | 1-216-686   | -11                  | METAL C                       | HIP                     |                      | 0.50%                      |                         |               |
| R512<br>R513<br>R514 | 1-216-055-00<br>1-216-295-00<br>1-216-295-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  | 100K<br>120K<br>1.8K<br>0          | 5%<br>5%<br>5%                         | 1/10W<br>1/10W<br>1/10W |        | R587<br>R588<br>R589    | 1-216-686<br>1-216-675<br>1-216-077<br>1-216-067<br>1-216-081<br>1-216-683<br>1-247-688<br>1-216-647<br>1-266-104<br>1-216-689<br>1-214-754 | -11<br>-00<br>-00    | METAL G                       | LAZE<br>LAZE            | 15K<br>5.6K          | 0.50%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W |               |
| R515<br>R516         | 1-216-675-11<br>1-216-697-11                 | METAL CHIP   | 10K<br>82K                         | 0.50%<br>0.50%                         | 1/10W<br>1/10W          |        | R590<br>R591            | 1-216-683   | -00<br>-11           | METAL C                       | I.AZE<br>HIP            | 22K                  | U. 50%                     | 1/1UW                   |               |
| R517<br>R518<br>R519 | 1-214-888-00<br>1-260-123-11<br>1-216-017-00 | METAL<br>CARBON<br>METAL GLAZE   | 10K<br>100K<br>47                  | 1%<br>5%<br>5%                         | 1/2W<br>1/2W<br>1/10W   |        | R592<br>R593<br>R594    | 1-247-688<br>1-216-647<br>1-260-104<br>1-216-689  | -11<br>-11<br>-91    | METAL C<br>CARBON             | HIP                     | 10<br>680<br>2.7K    | 5%                         | 1/4W<br>1/10W<br>1/2W   | ۲             |
| R520<br>R521         | 1-249-423-11<br>1-216-065-00                 | CARBON<br>METAL GLAZE  | 3.3K<br>4.7K                       | 5%<br>5%                               | 1/4W<br>1/10W           | F      | R595<br>R596            | 1-216-689<br>1-214-754  | -11<br>-00           | METAL G<br>METAL              | LAZE                    | 11K                  | 1%                         | 1/4W                    |               |
| R522<br>R523<br>R524 | 1-260-111-11<br>1-215-892-11<br>1-216-093-00 | CARBON<br>METAL OXIDE<br>METAL GLAZE   | 10K<br>1K<br>68K                   | 5%<br>5%<br>5%                         | 1/2W<br>2W<br>1/10W     | F      | R597<br>R598<br>R599    | 1-249-417<br>1-216-085<br>1-216-645<br>1-216-295<br>1-216-077   | -11<br>-00<br>-11    | CARBON<br>METAL G<br>METAL C  | LAZE                    | 1K<br>33K<br>560     | 5%<br>5%<br>0,50%          | 1/4W<br>1/10W<br>1/10W  | F             |
| R525<br>R528         | 1-216-069-00<br>1-216-089-91                 |  |                                    | 5%<br>5%                               | 1/10W<br>1/10W          |        | R1102<br>R1103          | 1-216-295<br>1-216-077  | -00<br>-00           | METAL G                       | LAZE                    | 0<br>15K             | 5%<br>5%                   | 1/10W<br>1/10W          |               |
| R529<br>R530<br>R531 | 1-216-089-91<br>1-216-367-11<br>1-216-077-00 | METAL GLAZE<br>METAL OXIDE<br>METAL GLAZE  | 6.8K<br>47K<br>47K<br>0.68<br>15K  | 5%<br>5%<br>5%                         | 1/10W<br>2W<br>1/10W    | F      | R1104<br>R1105<br>R1106 | 1-216-699<br>1-216-073<br>1-216-097<br>1-216-059  | 1-11<br>1-00<br>1-00 | METAL C<br>METAL G<br>METAL G | HIP<br>LAZE<br>LAZE     | 100K<br>10K<br>100K  | 0.50%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W |               |
| R532<br>R533         | 1-215-919-71                                 |  |                                    |  | 3W                      | F      | R1108                   | 1-216-681   | -11                  | METAL C                       | HIP                     | 181                  | 0.50%                      | 1/10W<br>1/10W          |               |
| R534<br>R535<br>R538 | 1-216-085-00<br>1-249-448-11<br>1-216-077-00 | METAL GLAZE<br>CARBON<br>METAL GLAZE   | 2.2K<br>6.8K<br>33K<br>1.2<br>15K  | 5%<br>5%<br>5%                         | 1/10W<br>1/4W<br>1/10W  | F      | R1109<br>R1110<br>R1113 | 1-216-295<br>1-216-295<br>1-216-081<br>1-216-113<br>1-216-071   | 5-00<br>5-00<br>1-00 | METAL G<br>METAL G<br>METAL G | LAZE<br>LAZE<br>LAZE    | 0<br>0<br>22K        | 5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W |               |
| R539<br>R540         | 1-216-065-00<br>1-216-113-00                 |  |                                    |  | 1/10W<br>1/10W          |        | R1118<br>R1123          | 1-216-113<br>1-216-071  | 3-00<br>1-00         | METAL C                       |                         | 470K<br>8.2K         | 5%<br>5%                   | 1/10W<br>1/10W          |               |
| R541<br>R542<br>R543 | 1-249-383-11<br>1-216-057-00<br>1-212-883-00 | CARBON<br>METAL GLAZE<br>FUSIBLE   | 4.7K<br>470K<br>1.5<br>2.2K<br>120 | 5%<br>5%<br>5%                         | 1/4W<br>1/10W<br>1/4W   | F      | R1124<br>R1125<br>R1128 | 1-216-113<br>1-216-049<br>1-216-065   | 3-00<br>9-00<br>5-00 | METAL (<br>METAL (<br>METAL ( | GLAZE<br>GLAZE          | 470K<br>1K<br>4.7K   | 5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W |               |
| R544<br>R545         | 1-216-095-00<br>1-216-073-00                 | METAL GLAZE<br>METAL GLAZE   | 82K<br>10K<br>4.7K<br>2.2K         | 5%<br>5%                               | 1/10W<br>1/10W          | )      | R1129<br>R1131          | 1-216-071<br>1-216-049<br>1-216-069<br>1-216-071<br>1-216-079   | 1-00<br>9-00         | METAL (                       | GLAZE                   | 8.2K<br>1K           | 5%<br>5%                   | 1/10W<br>1/10W          |               |
| R546<br>R548<br>R549 | 1-249-425-11<br>1-216-057-00<br>1-216-677-11 | METAL GLAZE METAL GLAZE CARBON METAL GLAZE | 4.7K<br>2.2K<br>12K                | 5%<br>5%<br>0.50%                      | 1/4W<br>1/10W<br>1/10W  | F<br>J | R1132<br>R1134<br>R1135 | 1-216-071<br>1-216-071<br>1-216-295   | 1-00<br>3-00<br>5-00 | METAL (<br>METAL (<br>METAL ( | GLAZE<br>GLAZE<br>GLAZE | 8.2K<br>10K<br>0     | 5%<br>5%                   | 1/10W<br>1/10W<br>1/10W |               |
| R550<br>R551         | 1-216-053-00<br>1-216-077-00                 | METAL GLAZE<br>METAL GLAZE   | 1.5K<br>15K                        | 5%<br>5%                               | 1/10V<br>1/10V          | )<br>i | R1136<br>R1139          | 1-216-097   | 7-00<br>5-00         | METAL (                       | GLAZE<br>GLAZE          | 100K<br>1.8K         | 5%<br>5%                   | 1/10W<br>1/10W          |               |
| R552<br>R553<br>R554 | 1-216-033-00<br>1-216-083-00<br>1-216-095-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  | 220<br>27K<br>82K                  | 5%<br>5%<br>5%                         | 1/100<br>1/100<br>1/100 | d<br>d | R1140<br>R1141<br>R1142 | 1-216-65<br>1-216-08<br>1-216-65  | 3-11<br>3-00<br>3-11 | METAL<br>METAL                | CHIP<br>GLAZE<br>CHIP   | 1.2K<br>27K<br>1.2K  | 0.50%<br>5%<br>0.50%       | 1/10W<br>1/10W<br>1/10W |               |
| R555<br>R556         | 1-216-692-11<br>1-216-464-11                 | METAL CHIP<br>METAL OXIDE  | 51K<br>18K                         | 0.505<br>5%                            | % 1/100<br>2W           | F      | R1143<br>R1144          | 1-216-65  | 3-11<br>3-00         | METAL                         | GLAZE                   | 1.2K<br>10K          | 0.50%<br>5%                | 1/10W<br>1/10W          |               |
| R557<br>R558<br>R559 | 1-216-081-00<br>1-247-711-11<br>1-216-109-00 | METAL GLAZE CARBON METAL GLAZE   | 22K<br>680<br>330K                 | 5%<br>5%<br>5%                         | 1/100<br>1/4W<br>1/100  | F<br>W | R1145<br>R1146<br>R1147 | 1-216-06<br>1-216-05<br>1-216-05  | 7-00<br>7-00<br>7-00 | METAL<br>METAL<br>METAL       | GLAZE<br>GLAZE<br>GLAZE | 5.6K<br>2.2K<br>2.2K | 5%<br>5%                   | 1/10W<br>1/10W<br>1/10W |               |
| R560<br>R561         | 1-216-091-00<br>1-216-049-00                 | METAL GLAZE<br>METAL GLAZE   | 56K<br>1K                          | 5%<br>5%                               | 1/10<br>1/10            | Ŋ      | R1148<br>R1150          | 1-216-06<br>1-216-03  | 5-00<br>7-00         | METAL                         | GLAZE                   | 4.7K<br>330          | 5%<br>5%                   | 1/10W<br>1/10W          |               |
| R563<br>R564<br>R565 | 1-216-017-00<br>1-216-107-00<br>1-216-033-00 | METAL GLAZE  | 47<br>270K<br>220                  | 5%                                     | 1/10<br>1/10<br>1/10    | ₩<br>₩ | R1151<br>R1155<br>R1163 | 1-216-13  | 3-00                 | METAL<br>METAL                | GLAZE<br>GLAZE          | 3.3M<br>220          | 5%<br>5%                   | 1/10W<br>1/10W<br>1/10W |               |
| R567<br>R568         | 1-216-081-00<br>1-216-073-00                 | METAL GLAZE<br>METAL GLAZE   | 22K<br>10K                         | 5%<br>5%                               | 1/10<br>1/10            | W<br>W | R1164<br>R1165          | 1-216-04  | 9-00                 | METAL                         |                         | 1 K<br>1 K           | 5%<br>5%                   | 1/10W<br>1/10W          | 1             |
| R569<br>R571<br>R572 | 1-260-114-11<br>1-216-065-00<br>1-216-059-00 | L CARBON<br>METAL GLAZE  | 18K<br>4.7k<br>2.7k                | 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% | 1/2W<br>1/10<br>1/10    | W      | R1166<br>R1171<br>R1172 | 1-216-08<br>1-216-08  | 15-00<br>15-00       | METAL<br>METAL                | GLAZE<br>GLAZE          | 0<br>33K<br>33K      | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W |               |
| R573<br>R574         | 1-216-071-00<br>1-216-689-1                  | METAL GLAZE  | 8.2k<br>39K                        |  | 1/10<br>1/10            | ñ      | R1176<br>R1177          | 1-216-29<br>1-216-07  | 15-00<br>11-00       | METAL<br>METAL                | GLAZE<br>GLAZE          | 0<br>8.2K            |                            | 1/10W<br>1/10W          |               |
| R576<br>R578<br>R580 | 1-216-101-0                                  | ) METAL GLAZE<br>1 METAL CHIP  |                                    | 5%<br>0.50                             | 1/10<br>% 1/10<br>1/10  | W<br>W | R1178<br>R1179<br>R1180 | 1-216-04<br>1-216-08  | 11-00<br>39-91       | METAL<br>METAL                | GLAZE<br>GLAZE          | 0<br>470<br>47K      | 5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W | <b>)</b><br>} |
| R582<br>R583         | 1-216-085-00<br>1-216-039-0                  | O METAL GLAZE<br>O METAL GLAZE   | 33K<br>390                         |  | 1/10<br>1/10            | (i)    | R1181<br>R1182          | 1-216-29<br>2 1-216-13  | 95-00<br>31-11       | METAL<br>METAL                | GLAZE                   | 0<br>2.7M            | 5%<br>5%                   | 1/10W<br>1/10W          | }             |
| R584<br>R585         | 1-216-071-0                                  | O METAL GLAZE  | 8.21<br>220                        |  | 1/10<br>1/10            | ₩      |                         | 3 1-216-07<br>1 1-216-13  |                      |                               |                         | 8.2K<br>2.7M         | 5%<br>5%                   | 1/10W<br>1/10W          | )<br>}        |

| REF.NO. PART NO.  | DESCRIPTION   |                                      |                                  |   | REMARK | REF.NO.  | PART NO.   | DESCRIPTION   |                                     |  |   | REMARK |
|---|---|--------------------------------------|----------------------------------|---|--------|--|--|---|-------------------------------------|--|---|--------|
| R1185 1-216-071-00 R1186 1-216-131-11 R1187 1-216-071-00 R1188 1-216-131-11 R1189 1-216-071-00 R1190 1-216-131-11 R1191 1-216-071-00 R1192 1-216-131-11 R1193 1-216-025-00  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 8.2K<br>2.7M<br>8.2K<br>2.7M<br>8.2K | 5%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1363<br>R1365<br>R1366<br>R1367                   | 1-216-113-00<br>1-216-131-11<br>1-216-081-00<br>1-216-057-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  | 470K<br>2.7M<br>22K<br>2.2K         | 5%<br>5%<br>5%                         | 1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| K1194 1-216-085-00  | METAL GLAZE   | 33K                                  | 5%                               | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1369<br>R1370<br>R1371<br>R1372                   | 1-216-059-00<br>1-216-051-00<br>1-216-105-00<br>1-216-113-00<br>1-249-437-11 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL CHIP   | 2.7K<br>1.2K<br>220K<br>470K<br>47K | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/4W  |        |
| R1195 1-216-025-00<br>R1196 1-216-085-00<br>R1197 1-216-025-00<br>R1198 1-216-085-00<br>R1304 1-216-689-11  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 100<br>33K<br>100<br>33K<br>39K      | 5%                               | 1/10W                                     |        | R1376  | 1-216-647-11   | METAL CHIP  | 680                                 | 0.50%                                  | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R1305 1-216-033-00<br>R1306 1-216-645-11<br>R1307 1-216-091-00<br>R1308 1-216-645-11<br>R1309 1-216-025-00  | METAL GLAZE<br>METAL CHIP<br>METAL CHIP<br>METAL CHIP<br>METAL GLAZE    | 220<br>560<br>56K<br>560<br>100      | 5%<br>0.50%<br>5%<br>0.50%<br>5% | 1/16W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1379<br>R1380<br>R1381<br>R1383                   | 1-216-645-11<br>1-216-647-11<br>1-216-681-11                                 | METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP | 330<br>560<br>680<br>18K            | 0.50%<br>0.50%<br>0.50%                | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R1310 1-216-025-00<br>R1311 1-216-089-91<br>R1312 1-216-027-00<br>R1313 1-216-097-00<br>R1314 1-216-081-00  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 100<br>47K<br>120<br>100K<br>22K     | 5%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1385<br>R1386<br>R1387<br>R1388                   | 1-216-071-00<br>1-216-073-00<br>1-216-653-11<br>1-216-689-11                 | METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP   | 15K<br>1.2K<br>39K                  | 5%<br>5%<br>0.50%<br>0.50%             | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R1313 1-216-097-00 R1314 1-216-081-00  R1316 1-216-041-00 R1317 1-216-041-00 R1318 1-216-065-00 R1319 1-216-085-00 R1320 1-216-065-00  R1323 1-216-097-00 R1328 1-216-125-00 R1329 1-216-125-00 R1329 1-216-103-91 R1330 1-216-081-00 R1331 1-216-679-11 R1332 1-216-679-11 R1333 1-216-679-00 R1333 1-216-679-00 R1333 1-216-693-00 R1333 1-216-049-00 R1333 1-216-049-00 R1333 1-249-401-11 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 4.7K<br>470<br>3.3K<br>33K<br>4.7K   | 5%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1390<br>R1391<br>R1392<br>R1393                   | 1-216-647-11<br>1-216-647-11<br>1-216-025-00<br>1-216-041-00<br>1-216-041-00 | METAL CHIP  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  | 100<br>470<br>3.9K<br>470<br>8.2K   | 0.50%<br>5%<br>5%                      | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R1323 1-216-097-00<br>R1328 1-216-125-00<br>R1329 1-216-103-91<br>R1330 1-216-081-00<br>R1331 1-216-679-11  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL CHIP  | 100K<br>1.5M<br>180K<br>22K<br>15K   | 5%<br>5%<br>5%<br>5%<br>0.50%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1395<br>R1396<br>R1397<br>R1398                   | 1-216-071-00<br>1-216-071-00<br>1-216-065-00<br>1-216-295-00<br>1-216-073-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE   | 8.2K<br>8.2K<br>4.7K<br>0<br>10K    | 5%<br>5%                               | 1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R1336 1-216-095-00  | METAL CHIP<br>METAL GLAZE<br>METAL GLAZE<br>CARBON<br>METAL GLAZE       | 6.8K<br>1K<br>3.9K<br>47<br>82K      | 0.50%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/4W<br>1/10W  | F      | R1401<br>R1402<br>R1403<br>R1404<br>R1405          | 1-216-085-00<br>1-216-295-00<br>1-216-651-11<br>1-216-681-11<br>1-216-071-00 | METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE METAL CHIP METAL GLAZE                             | 33K<br>0<br>1K<br>18K               | 5%<br>5%<br>0.50%<br>0.50%             | 1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R1337 1-216-061-00<br>R1338 1-216-647-11<br>R1339 1-216-033-00<br>R1340 1-216-033-00<br>R1341 1-216-033-00  | METAL GLAZE<br>METAL CHIP<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE  | 3.3K<br>680<br>220<br>220<br>220     | 5%<br>0.50%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1406<br>R1407<br>R1408<br>R1409<br>R1410          | 1-216-653-11<br>1-216-061-00<br>1-216-113-00<br>1-216-295-00<br>1-216-053-00 | METAL CHIP  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  | 1.2K<br>3.3K<br>470K<br>0           | 0.50%<br>5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R1342 1-216-083-00<br>R1343 1-216-037-00<br>R1344 1-216-093-00<br>R1345 1-216-109-00<br>R1346 1-216-097-00  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 27K<br>330<br>68K<br>330K<br>100K    | 5%                               | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1414<br>R1415<br>R1416<br>R1417                   | 1-216-081-00<br>1-216-057-00<br>1-216-093-00<br>1-216-113-00<br>1-216-033-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE   | 22K<br>2.2K<br>68K<br>470K<br>220   | 5% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R1347 1-216-073-00<br>R1348 1-216-071-00<br>R1349 1-216-035-00<br>R1350 1-216-073-00<br>R1351 1-216-033-00  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 10K<br>8.2K<br>270<br>10K<br>220     | 5%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1418<br>R1419<br>R1420<br>R1421<br>R1422          | 1-216-033-00<br>1-216-025-00<br>1-216-089-91<br>1-216-649-11                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL CHIP   | 220<br>100<br>47K<br>820            | 5%<br>5%<br>0.50%                      | 1/10W<br>1/10W<br>1/10W<br>1/10W          |        |
| R1352 1-216-065-00<br>R1353 1-216-065-00<br>R1354 1-216-089-91<br>R1355 1-216-033-00<br>R1356 1-216-105-00  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 4.7K<br>4.7K<br>47K<br>220<br>220K   | 5%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        | R1423<br>R1423<br>R1424<br>R1425<br>R1426<br>R1427 | 1-216-085-00<br>1-216-057-00<br>1-216-081-00<br>1-216-013-00<br>1-216-113-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE   | 33K<br>2.2K<br>22K<br>33<br>470K    | 5%<br>5%<br>5%<br>5%                   | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |        |
| R1357 1-216-101-00<br>R1359 1-216-099-00<br>R1360 1-216-065-00<br>R1361 1-216-113-00  | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE                | 150K<br>120K<br>4.7K<br>470K         | 5%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W          |        | R1428  | 1-216-681-11<br>1-216-061-00<br>1-216-668-11<br>1-216-073-00                 | METAL CHIP<br>METAL GLAZE<br>METAL CHIP<br>METAL GLAZE  | 18K<br>3.3K<br>5.1K<br>10K          | 0.50%<br>5%<br>0.50%<br>5%             | 1/10W                                     |        |

The components identified by shading and mark A are critical for safety.

Replace only with part number

specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. PART NO.  | DESCRIPTION  |  |   | REMARK   | REF.NO.                                   | PART NO.   | DESCRIPTION  |   |   |   | REMARK         |
|---|--|--|---|--|---|--|--|---|---|---|----------------|
| R1431 1-216-129-0<br>R1432 1-216-089-9<br>R1434 1-216-295-0<br>R1436 1-216-073-0<br>R1437 1-216-069-0 | METAL GLAZE O METAL GLAZE O METAL GLAZE O METAL GLAZE                      | 2.2M 5%<br>47K 5%<br>0 5%<br>10K 5%<br>6.8K 5%   | 1/10<br>1/10<br>1/10<br>1/10<br>1/10            | ) (d<br>) (d<br>) (d<br>) (d<br>) (d<br>) (d<br>) (d<br>) (d | R1498<br>R1499<br>R1500<br>R1501<br>R1502 | 1-216-057-00<br>1-216-057-00<br>1-216-647-11<br>1-216-071-00<br>1-260-105-11 | METAL GLAZE  | 2.2K<br>2.2K<br>680<br>8.2K<br>3.3K<br>3.9K | 5%<br>5%<br>0.50%<br>5%                 | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/2W  |                |
| R1441 1-216-033-0<br>R1442 1-216-073-0  |  | 10K 5%<br>2.7K 5%<br>470 5%<br>220 5%<br>10K 5%  | 1/10<br>1/10<br>1/10<br>1/10<br>1/10            | 3M<br>5M<br>5M<br>5M<br>5M                                   | R1503<br>R1504<br>R1505<br>R1506<br>R1507 | 1-216-063-00<br>1-216-686-11<br>1-247-688-11<br>1-216-037-00<br>1-216-065-00 | METAL GLAZE  METAL CHIP CARBON METAL GLAZE METAL GLAZE   | 3.9K<br>30K<br>10<br>330<br>4.7K            | 5%<br>0.50%<br>5%<br>5%                 | 1/10W<br>1/10W<br>1/4W<br>1/10W<br>1/10W  | F              |
| R1443 1-216-013-0<br>R1444 1-216-057-0<br>R1445 1-216-071-0<br>R1446 1-216-071-0<br>R1447 1-216-081-0 |  | 33 5½<br>2.2K 5½<br>8.2K 5½<br>8.2K 5½<br>22K 5½ | 4/,41   | , .,   | 1 22221                                   | 2 210 200 11   | METAL CHIP<br>CARBON   | 680   | 0.50%                                   | 1/10W<br>1/2W                             | F              |
| R1448 1-216-085-C<br>R1449 1-216-057-C<br>R1450 1-216-129-C<br>R1451 1-216-093-C<br>R1452 1-216-085-C | O METAL GLAZE  | 33K 5%<br>2.2K 5%<br>2.2M 5%<br>68K 5%<br>33K 5% | 7 1/1<br>7 1/1<br>7 1/1<br>7 1/1<br>7 1/1       | JM<br>JM<br>JM<br>JM<br>JM                                   | R1514<br>R1515<br>R1518<br>R1519<br>R1520 | 1-247-711-11<br>1-216-350-11<br>1-215-867-00<br>1-216-355-11<br>1-216-007-00 | METAL OXIDE<br>METAL OXIDE<br>METAL OXIDE  |   | 55 555555555555555555555555555555555555 | 1/4W<br>1W<br>1W<br>1W<br>1/10W           | 1<br>1<br>1    |
| R1453 1-216-013-0<br>R1454 1-216-065-0<br>R1455 1-216-113-0<br>R1456 1-216-129-0<br>R1457 1-216-089-9 | OO METAL GLAZE OO METAL GLAZE OO METAL GLAZE OO METAL GLAZE OI METAL GLAZE | 33 57<br>4.7K 57<br>470K 57<br>2.2M 57<br>47K 57 | 1/1   | )W   | D1522                                     | 1-240-400-11   | METAL GLAZE  | 150   | 5%                                      | 1/10W<br>1/4W<br>1W<br>1W<br>1/10W        | F              |
| R1458 1-216-085-0<br>R1459 1-216-133-0<br>R1460 1-216-097-0<br>R1461 1-216-645-<br>R1462 1-216-645-   | DO METAL GLAZE DO METAL GLAZE DO METAL GLAZE 11 METAL CHIP 11 METAL CHIP   | 33K 55<br>3.3M 55<br>100K 55<br>560 0<br>560 0   | % 1/1<br>% 1/1<br>% 1/1<br>.50% 1/1<br>.50% 1/1 | OW<br>OW<br>OW<br>OW   | R1526<br>R1527<br>R1528<br>R1529          | 1-216-089-91<br>1-249-413-11<br>1-215-869-11<br>1-202-829-11                 | CARBON   | 47K<br>470<br>1K<br>8.2K                    | 5%                                      | 1/10W<br>1/4W<br>1W<br>1/2W<br>1/10W      | F              |
| R1463 1-216-645-<br>R1464 1-216-057-<br>R1465 1-216-097-<br>R1466 1-216-055-<br>R1467 1-216-073-      | 11 METAL CHIP 00 METAL GLAZE 00 METAL GLAZE 00 METAL GLAZE 00 METAL GLAZE  | 560 0<br>2.2K 5<br>100K 5<br>1.8K 5<br>10K 5     | 7 1/1   | 0W   | R1533                                     | 1-249-414-11   | CARBON   | 56<br>2.7K<br>560                           | 5%                                      | 1/4W<br>1/4W<br>1/10W<br>1/4W             | F              |
| R1468 1-249-438-<br>R1469 1-216-057-<br>R1470 1-216-057-<br>R1471 1-216-049-<br>R1472 1-216-085-      | OO METAL GLAZE   | 2.2K 5   | % 1/1<br>% 1/1                                  | OM<br>M  | R1538<br>R1539                            | 1-216-073-00   | METAL GLAZE<br>METAL GLAZE   | 10K<br>39K                                  | 5%                                      | 1/4W<br>1/10W<br>1/10W<br>1/10W           |                |
| R1473 1-216-081-<br>R1474 1-216-687-<br>R1475 1-216-677-<br>R1476 1-216-063-                          | OO METAL GLAZE 11 METAL CHIP 11 METAL CHIP 00 METAL GLAZE                  | 22K 5<br>33K 0<br>12K 0<br>3.9K 5                | 5% 1/1<br>0.50% 1/1<br>0.50% 1/1                | OM<br>OM<br>OM   | R1541<br>R1542<br>R1543<br>R1544          | 1-216-081-00<br>1-216-111-00<br>1-216-027-00<br>1-216-117-00                 | METAL GLAZE METAL OXIDE CARBON METAL GLAZE | 22K<br>390K<br>120<br>680K                  | 5%<br>5%<br>5%                          | 1/10W<br>1/10W<br>1/10W<br>1/10W          | }              |
| R1477 1-216-057-<br>R1478 1-216-061-<br>R1479 1-216-295-<br>R1480 1-216-089-<br>R1481 1-216-115-      | -91 METAL GLAZE  | 47K 5  | 5% 1/<br>5% 1/                                  | OW   | R1551                                     | 1-249-393-11   | CARBON   | 2.2<br>390<br>220K<br>10                    | 5%                                      | 3W<br>1/2W<br>1/10W<br>1/4W               | F<br>F         |
| R1482 1-216-089-<br>R1483 1-216-089-<br>R1484 1-216-081-<br>R1485 1-216-113-<br>R1486 1-216-121-      | -91 METAL GLAZE<br>-91 METAL GLAZE<br>-00 METAL GLAZE<br>-00 METAL GLAZE   | 47K 5  | 5% 1/<br>5% 1/<br>5% 1/<br>5% 1/                | OW<br>OW<br>OW<br>OW   | R1552<br>R1554<br>R1555<br>R1556<br>R1557 | 1-216-059-00   | METAL GLAZE<br>METAL GLAZE   | 1 K<br>2.7 K<br>0<br>8.2 K<br>220 K         | 5%<br>5%<br>5%<br>5%<br>0.50%           | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | J<br>J         |
| R1487 1-216-113-<br>R1488 1-216-083-<br>R1489 1-216-069-<br>R1490 1-216-035-                          | -OO METAL GLAZE -OO METAL GLAZE -OO METAL GLAZE -OO METAL GLAZE            | 470K 5   | 5% 1/<br>5% 1/<br>5% 1/<br>5% 1/                | IOW<br>IOW<br>IOW  | R1558<br>R1559<br>R1560<br>R1561<br>R1562 | 1-216-681-11   | CARBON<br>METAL GLAZE<br>METAL CHIP  | 10<br>10<br>1K<br>18K<br>1M                 | 5%<br>5%<br>5%<br>0.50%                 | 1/4W<br>1/4W<br>1/10W<br>1/10W<br>1/4W    | F              |
| R1491 1-216-035-<br>R1492 1-216-035-<br>R1493 1-216-083-<br>R1494 1-216-081-<br>R1495 1-216-089-      | -00 METAL GLAZE -00 METAL GLAZE -00 METAL GLAZE -91 METAL GLAZE            |  | 5% 1/<br>5% 1/<br>5% 1/<br>5% 1/                | 10W<br>10W<br>10W<br>10W<br>10W                              | R1563<br>R1564<br>R1567<br>R1574<br>R1575 | 1-216-681-11<br>1-216-089-91<br>1-216-041-00                                 | METAL CHIP<br>METAL GLAZE<br>METAL GLAZE   | 1M<br>18K<br>47K<br>470<br>100              | 1%<br>0.50%<br>5%<br>5%<br>5%           | 1/4W<br>1/10W<br>1/10W<br>1/10W<br>1/10W  | 4)<br>1)<br>1) |
| R1497 1-216-113   |  |  |   | 10W  | R1576<br>R1577                            | 1-216-025-00<br>1-216-025-00   |  | 100<br>100                                  | 5%<br>5%                                | · 1/100                                   |                |

The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

| <br><del>`</del>                 |  |   |                         |                      |                         |        |                         |  |   |                      |                   |                         |        |
|----------------------------------|--|---|-------------------------|----------------------|-------------------------|--------|-------------------------|--|---|----------------------|-------------------|-------------------------|--------|
| REF.NO.                          | PART NO.   |   |                         |                      |                         | REMARK | REF.NO.                 | PART NO.                                     | DESCRIPTION   |                      |                   |                         | REMARK |
| R1578<br>R1579                   | 1-216-065-00<br>1-216-689-11<br>1-216-065-00                                 | METAL GLAZE                               | 4.7K<br>39K             | 5%<br>5%             | 1/10W<br>1/10W          |        | R2383                   | 1-216-033-00                                 | METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP METAL GLAZE | 220                  | 5%                | 1/10W                   |        |
| K2301                            | 1-216-065-00<br>1-216-065-00<br>1-216-089-91                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 4.7K<br>4.7K<br>47K     | 5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W |        | R2384<br>R2389<br>R2390 | 1-216-689-11<br>1-216-033-00<br>1-216-647-11 | METAL GLAZE<br>METAL GLAZE<br>METAL CHIP  | 39K<br>220<br>680    | 5%<br>5%<br>0.50% | 1/10W<br>1/10W<br>1/10W |        |
| R2307<br>R2308                   | 1-216-033-00<br>1-216-103-91   | METAL GLAZE<br>METAL GLAZE                | 220<br>180K             | 5%<br>5%             | 1/10W<br>1/10W          |        | R2391<br>R2394          | 1-216-647-11<br>1-216-081-00                 | METAL CHIP<br>METAL GLAZE   | 680<br>22K           | 0.50%<br>5%       | 1/10W<br>1/10W          |        |
| K2311                            | 1-216-049-00<br>1-216-073-00<br>1-216-053-00                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 1 K<br>1 O K<br>1 . 5 K | 5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W |        | R2396<br>R2397<br>R2398 | 1-216-041-00<br>1-216-113-00<br>1-216-109-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 470<br>470K<br>330K  | 5%<br>5%          | 1/10W<br>1/10W<br>1/10W |        |
| R2316                            | 1-216-679-11<br>1-216-081-00   | METAL CHIP<br>METAL GLAZE                 | 15K<br>22K              | 0.50%<br>5%          | 1/10W<br>1/10W          |        | R2399<br>R2501          | 1-216-073-00<br>1-216-083-00                 | METAL GLAZE<br>METAL GLAZE  | 10K<br>27K           | 5%<br>5%          | 1/10W<br>1/10W          |        |
| R2320                            | 1-216-049-00<br>1-216-677-11<br>1-216-683-11                                 | METAL GLAZE<br>METAL CHIP<br>METAL CHIP   | 1K<br>12K<br>22K        | 5%<br>0.50%<br>0.50% | 1/10W<br>1/10W<br>1/10W |        | R2502<br>R2551<br>R2552 | 1-216-077-00<br>1-216-091-00<br>1-216-085-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 15K<br>56K<br>33K    | 5%<br>5%          | 1/10W<br>1/10W          |        |
| R2325<br>R2326                   | 1-216-063-00<br>1-216-041-00   | METAL GLAZE<br>METAL GLAZE                | 3.9K<br>470             | 5%<br>5%             | 1/10W<br>1/10W          |        | R2553<br>R2555          | 1-216-083-00<br>1-216-055-00                 | METAL GLAZE<br>METAL GLAZE  | 27K<br>1.8K          | 5%<br>5%          | 1/10W<br>1/10W          |        |
| R2327                            | 1-216-059-00<br>1-216-049-00<br>1-216-059-00                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 2.7K<br>1K<br>2.7K      | 5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W |        | R2556<br>R2557<br>R2558 | 1-216-051-00<br>1-216-067-00<br>1-216-057-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 1.2K<br>5.6K         | 5%<br>5%          | 1/10W<br>1/10W          |        |
|                                  | 1-216-049-00<br>1-216-059-00   | METAL GLAZE<br>METAL GLAZE                | 1K                      | 5%<br>5%             | 1/10W                   |        | R2559<br>R2560          | 1-216-039-00<br>1-216-069-00                 | METAL GLAZE<br>METAL GLAZE  | 390<br>6.8K          | 5%<br>5%          | 1/10W<br>1/10W<br>1/10W |        |
| R2332<br>R2334                   | 1-216-049-00<br>1-216-041-00<br>1-216-061-00                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 1K<br>470               | 5%<br>5%<br>5%       | 1/10W<br>1/10W          |        | R2561<br>R2562          | 1-216-001-00<br>1-216-001-00                 | METAL GLAZE<br>METAL GLAZE  | 10<br>10             | 5%<br>5%          | 1/10W<br>1/10W          |        |
|                                  |  | METAL GLAZE<br>METAL GLAZE                | 4.7K                    | 5%                   | 1/10W                   |        | R3301<br>R3302          | 1-216-073-00<br>1-216-065-00                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 10K<br>4.7K          | 5%<br>5%          | 1/10W<br>1/10W<br>1/10W |        |
| R2338<br>R2339<br>R2341          | 1-216-065-00<br>1-216-037-00<br>1-216-073-00<br>1-216-037-00<br>1-216-037-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 10K<br>330<br>330       | 5%<br>5%             | 1/10W<br>1/10W          |        | R3303<br>R3304          | 1-216-065-00<br>1-216-065-00                 | METAL GLAZE<br>METAL GLAZE  | 4.7K<br>4.7K         | 5%<br>5%          | 1/10W<br>1/10W          |        |
| R2342<br>R2344                   | 1-216-071-00<br>1-216-121-00   | METAL GLAZE                               | 8.2K                    | 5%<br>5%             | 1/10W                   |        | R3310<br>R3311          | 1-216-049-00<br>1-216-091-00                 | METAL GLAZE<br>METAL GLAZE  | 1K<br>56K            | 5%<br>5%          | 1/10W<br>1/10W<br>1/10W |        |
| R2346                            | 1-216-061-00<br>1-216-061-00<br>1-216-061-00                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 3.3K<br>3.3K<br>3.3K    | 5%<br>5%<br>5%       | 1/10W<br>1/10W          |        | R3312<br>R3314          | 1-216-105-00<br>1-216-295-00                 | METAL GLAZE<br>METAL GLAZE  | 220K                 | 5%<br>5%          | 1/10W<br>1/10W          |        |
| R2349<br>R2350                   | 1-216-679-11   | METAL CHIP<br>METAL GLAZE                 | 15K                     | 0.50%                | 1/10W                   |        | R3316<br>R3317          | 1-216-065-00<br>1-216-103-91                 | METAL GLAZE<br>METAL GLAZE  | 4.7K<br>4.7K<br>180K | 5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W |        |
| R2351<br>R2352<br>R2353          | 1-216-061-00<br>1-216-061-00   | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 3.3K<br>3.3K            | 5%<br>5%             | 1/10W<br>1/10W          |        | R3318<br>R3319          | 1-216-065-00<br>1-216-027-00                 | METAL GLAZE   | 4.7K<br>120          | 5%<br>5%          | 1/10W<br>1/10W          |        |
| R2354                            | 1-216-025-00   | METAL GLAZE<br>METAL CHIP                 | 100                     | 5%                   | 1/10W                   |        | R3322<br>R3333          | 1-216-073-00<br>1-216-113-00                 | METAL GLAZE<br>METAL GLAZE  | 10K<br>470K          | 0.50%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W |        |
| R2356<br>R2357                   | 1-216-089-91   | METAL GLAZE METAL GLAZE                   | 47K<br>82K              | 5%<br>5%             | 1/10W<br>1/10W          |        | R3337<br>R3338          | 1-216-099-00<br>1-218-759-11                 | METAL GLAZE<br>METAL CHIP   | 120K<br>200K         | 5%<br>0.50%       | 1/10W<br>1/10W          |        |
| R2359<br>R2360                   | 1-216-097-00   | METAL GLAZE                               | 100K                    | 5%                   | 1/10W                   |        | R3346<br>R3347          | 1-216-083-00<br>1-216-025-00<br>1-216-025-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 27K<br>100<br>100    | 5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W |        |
| R2362<br>R2364<br>R2366          | 1-216-689-11<br>1-216-081-00<br>1-216-025-00                                 | METAL GLAZE                               | 100                     | 5%<br>5%<br>5%<br>5% | 1/10W                   |        | 1 13349                 | 1-210-025-00                                 | METAL GLAZE   | 100                  | 57                | 1/10W                   |        |
| R2367<br>R2369                   | 1-216-067-00<br>1-216-093-00<br>1-216-083-00                                 | METAL GLAZE                               | 5.6K<br>68K             |                      | 1/10W                   |        | R3350<br>R3351<br>R3365 | 1-216-113-00<br>1-216-119-00<br>1-216-081-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 470K<br>820K<br>22K  | 5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W |        |
| R2370<br>R2371<br>R2372          | 1-216-081-00<br>1-216-049-00   | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 27K<br>22K<br>1K        | 5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W |        | R3376<br>R3377          | 1-216-081-00<br>1-216-107-00                 | METAL GLAZE   | 22K<br>270K          | 5%<br>5%          | 1/10W<br>1/10W          |        |
| R2374                            | 1-216-113-00   | METAL GLAZE                               | 470K                    |                      | 1/10W                   |        | R3378<br>R3390<br>R3394 | 1-216-115-00<br>1-216-057-00<br>1-216-089-91 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 560K<br>2.2K<br>47K  | 5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W |        |
| R2375<br>R2376<br>R2377<br>R2378 | 1-216-089-91<br>1-216-089-91<br>1-216-033-00                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 47K<br>47K<br>220       | 5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W |        | R3395<br>R3396          | 1-249-417-11<br>1-216-041-00                 | CARBON<br>METAL GLAZE   | 1K<br>470            | 5%<br>5%          | 1/4W<br>1/10W           |        |
| R2379<br>R2380                   | 1-216-089-91   | METAL GLAZE                               | 47K<br>220              | 5%<br>5%<br>5%       | 1/10W                   |        | R3397<br>R3398<br>R4401 | 1-216-041-00<br>1-216-101-00<br>1-216-085-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 470<br>150K<br>33K   | 5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W |        |
| R2381<br>R2382                   | 1-216-089-91<br>1-216-089-91<br>1-216-089-91                                 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 47K<br>47K<br>47K       | 5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W |        | R4402<br>R4404          | 1-216-113-00<br>1-216-073-00                 | METAL GLAZE<br>METAL GLAZE  | 470K<br>10K          | 5%<br>5%          | 1/10W<br>1/10W          |        |
|                                  |  |   |                         |                      |                         |        |                         |  |   |                      |                   |                         |        |

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



| REF.NO.                 | PART NO.   | DESCRIPTION   |   |   | REMARK                       | REF.NO.                              | PART NO.  | DESCRIPTION                     |   |                                 | REMARK                                |  |
|-------------------------|--|---|---|---|------------------------------|--------------------------------------|---|---------------------------------|---|---------------------------------|---------------------------------------|--|
| R4407<br>R4408<br>R4409 | 1-216-067-00<br>1-216-061-00<br>1-216-059-00<br>1-216-059-00<br>1-216-059-00   | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 5.6K 5%<br>3.3K 5%<br>2.7K 5%<br>2.7K 5%<br>2.7K 5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |                              | C630<br>C631<br>C632                 | 1-136-067-00<br>1-124-887-00<br>1-102-973-00<br>1-161-973-00<br>1-162-599-12  | CERAMIC<br>CERAMIC<br>CERAMIC   | 0.0036MF<br>0.001MF<br>100PF<br>220PF<br>0.0047MF | 3%<br>10%<br>5%<br>10%<br>20%   | 2KV<br>3KV<br>50V<br>400V<br>400V     |  |
| D 4 4 1 2               | 1-216-113-00<br>1-216-113-00<br>1-216-295-00<br>1-216-295-00<br>1-216-295-00   | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE | 470K 5%<br>470K 5%<br>0 5%<br>0 5%<br>0 5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |                              | C633<br>C634<br>C635<br>C636<br>C637 | 1-162-599-12<br>1-102-125-00<br>1-124-903-11<br>1-126-801-11<br>1-102-030-00  | CERAMIC<br>ELECT<br>ELECT       | 0.0047MF<br>0.0047MF<br>1MF<br>1MF<br>330PF       | 20%<br>10%<br>20%<br>20%<br>10% | 400V<br>50V<br>50V<br>50V<br>500V     |  |
|                         | <vari< td=""><td>ABLE RESISTOR</td><td><b>&gt;</b></td><td></td><td></td><td>C638<br/>C639<br/>C640<br/>C641<br/>C642</td><td>1-102-030-00<br/>1-104-783-51<br/>1-128-386-11</td><td>ELECT</td><td>330PF<br/>1000MF<br/>1000MF</td><td>10%<br/>20%<br/>20%</td><td>500V<br/>25V<br/>25V</td></vari<>   | ABLE RESISTOR   | <b>&gt;</b>   |   |                              | C638<br>C639<br>C640<br>C641<br>C642 | 1-102-030-00<br>1-104-783-51<br>1-128-386-11  | ELECT                           | 330PF<br>1000MF<br>1000MF                         | 10%<br>20%<br>20%               | 500V<br>25V<br>25V                    |  |
|                         |  |   |   |   |                              | C641<br>C642                         | 1-106-343-00  | MYLAR<br>CERAMIC                | 0.001MF<br>330PF                                  | 10%                             | 100V<br>500V                          |  |
| #500                    | <tran< td=""><td>NSFORMER&gt;</td><td>cenniae (Ho</td><td>p\</td><td></td><td>C643<br/>C644</td><td>1-104-884-11<br/>1-102-030-00<br/>1-162-131-11</td><td>ELECT<br/>CERAMIC</td><td>470MF<br/>330PF<br/>220PF</td><td>20%<br/>10%</td><td>50V<br/>500V<br/>2KV</td></tran<>   | NSFORMER>   | cenniae (Ho   | p\  |                              | C643<br>C644                         | 1-104-884-11<br>1-102-030-00<br>1-162-131-11  | ELECT<br>CERAMIC                | 470MF<br>330PF<br>220PF                           | 20%<br>10%                      | 50V<br>500V<br>2KV                    |  |
| 7501 A                  | <tran<br>1-426-668-11<br/>1-453-163-11</tran<br>   | TRANSFORMER A   | SSY, FLYBACI  | (   |                              | C646<br>C647                         | 1-102-131-11<br>1-102-973-00<br>1-126-385-11  | CERAMIC<br>CERAMIC<br>ELECT     | 100PF<br>390MF                                    | 10%<br>5%<br>20%                | 50V<br>16V                            |  |
|                         | <the< td=""><td>RMISTOR&gt;<br/>Thermistor</td><td></td><td></td><td></td><td>i</td><td>1-125-494-11<br/>1-126-803-11<br/>1-126-103-11<br/>1-126-101-11<br/>1-124-667-11</td><td>ELECT (BLOCK) ELECT ELECT ELECT</td><td>560MF<br/>47MF<br/>470MF<br/>100MF<br/>10MF</td><td>20%<br/>20%<br/>20%<br/>20%<br/>20%</td><td>160 V<br/>16 V<br/>16 V<br/>16 V<br/>50 V</td></the<> | RMISTOR><br>Thermistor  |   |   |                              | i                                    | 1-125-494-11<br>1-126-803-11<br>1-126-103-11<br>1-126-101-11<br>1-124-667-11  | ELECT (BLOCK) ELECT ELECT ELECT | 560MF<br>47MF<br>470MF<br>100MF<br>10MF           | 20%<br>20%<br>20%<br>20%<br>20% | 160 V<br>16 V<br>16 V<br>16 V<br>50 V |  |
| X 101                   | <pre><cre></cre></pre> <pre>1-579-175-11 1-527-722-00</pre>  | STAL><br>VIBRATOR, CER  | AMIC  |   |                              | C653<br>C654                         | 1-136-169-00<br>1-161-953-71  | FILM<br>CERAMIC                 | 0.22MF<br>0.0047MF                                | 5%<br>20%                       | 50V<br>40 <b>O</b> V                  |  |
| X301                    | 1-527-722-00   | OSCILLATOR, C   | RYSTAL<br>*******                                   | ******                                    | *******                      | C655 Z<br>C656 Z                     | 1-161-953-71<br>1-161-953-71<br>1-102-965-00  | CERAMIC<br>CERAMIC<br>CERAMIC   | 0.0047MF<br>0.0047MF<br>39PF                      | 20%<br>20%                      | 400 V<br>400 V<br>50 V                |  |
|                         | *A-1316-174-A  |   |   |   |                              | C658                                 | <b>▲</b> 1-161-953-71   | CERAMIC                         | 0.0047MF<br>0.0033MF                              | 20%<br>10%                      | 400V<br>50V                           |  |
|                         | 1-533-189-11   | HOLDER, FUSE  | ****  |   |                              | C660<br>C661                         | 1-102-123-00<br>1-124-791-11<br>1-130-467-00  | ELECT<br>MYLAR                  |   | 20%<br>5%                       | 10 <b>0</b> V<br>50 <b>V</b>          |  |
|                         | 4-363-414-00<br>4-382-854-11   | SPACER, MICA<br>SCREW (M3X10)   |   |   |                              |                                      |   | NECTOR>                         |   |                                 |                                       |  |
|                         | <cap< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td><td>CN601</td><td colspan="6">CN601 1-691-960-11 PIN, CONNECTOR (PC BOARD) 3P<br/>CN602 *1-695-561-11 PIN, CONNECTOR (PC BOARD) 7P<br/>CN603 1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P</td></cap<>   | PACITOR>  |   |   |                              | CN601                                | CN601 1-691-960-11 PIN, CONNECTOR (PC BOARD) 3P<br>CN602 *1-695-561-11 PIN, CONNECTOR (PC BOARD) 7P<br>CN603 1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P |                                 |   |                                 |                                       |  |
| C603 .                  | ▲ 1-161-953-71<br>▲ 1-161-953-71<br>▲ 1-161-953-71<br>▲ 1-161-953-71   | CERAMIC<br>CERAMIC<br>CERAMIC<br>CERAMIC                                | 0.0047MF<br>0.0047MF<br>0.0047MF<br>0.0047MF        | 20%<br>20%<br>20%<br>20%                  | 400V<br>400V<br>400V<br>400V | CN605<br>CN606                       | *1-573-964-11<br>*1-564-508-11  | PIN, CONNEC<br>PLUG, CONNE      | TOR (PC BOAR<br>CTOR 5P                           | CH) 3P<br>(D) 6P                |                                       |  |
| C605                    | <u>A</u> 1-104-706-51  | FILM  | 0.22MF  | 20%                                       | 250V<br>50V                  | CN609                                | *1-506-371-00   | PIN, CONNEC                     | TOR 2P  |                                 |                                       |  |
| C607<br>C608            | 1-124-907-11<br>1-124-798-11<br>1-129-765-00   | ELECT<br>FILM   | 1MF<br>0.047MF                                      | 20%<br>10%                                | 160V<br>200V                 |                                      |   | ODE>                            | 01  |                                 |                                       |  |
| C609<br>C610            | 1-124-126-00<br>1-124-902-00   | ELECT   | 47MF<br>0.47MF                                      | 20%<br>20%                                | 10V<br>50V                   | D601<br>D602<br>D603                 | <b>▲ 8-719-510-53</b><br>8-719-300-33<br>8-719-110-90   | DIODE RU-3A<br>DIODE RD39E      | M<br>SB4  |                                 |                                       |  |
| C611<br>C612<br>C613    | 1-130-729-00<br>1-107-722-11<br>1-104-706-51   | ELECT   | 0.0027MF<br>470MF<br>0.22MF                         | 5%<br>20%<br>20%                          | 50V<br>400V<br>250V          | D604<br>D605                         | 8-719-110-90<br>8-719-109-97  |                                 | SB4<br>ESB2                                       |                                 |                                       |  |
| C614                    | 1-102-978-00<br>▲ 1-104-706-51   | CERAMIC   | 220PF<br>0.22MF                                     | 5%<br>20%                                 | 50V<br>250V                  | D606<br>D607                         | 8-719-118-34<br>8-719-110-41  | DIODE RD15E                     | SB2   |                                 |                                       |  |
| C616<br>C618            | 1-162-318-11<br>1-124-907-11   | ELECT   | 0.001MF<br>10MF                                     | 10%<br>20%                                | 500V<br>50V                  | D608<br>D610<br>D611                 | 8-719-300-33<br>8-719-200-02<br>8-719-300-33  | DIODE 10E-2                     |   |                                 |                                       |  |
| C619<br>C620<br>C621    | 1-162-116-00<br>1-162-116-00<br>1-136-153-00   | CERAMIC   | 680PF<br>680PF<br>0.01MF                            | 10%<br>10%<br>5%                          | 2KV<br>2KV<br>50V            | D615<br>D616                         | 8-719-300-33<br>8-719-911-19  | DIODE 18811                     | 9   |                                 |                                       |  |
| C622<br>C623            | 1-126-773-21<br>1-162-318-11   | ELECT   | 47MF<br>0.001MF                                     | 20%<br>10%                                | 250V<br>500V                 | D617<br>D618<br>D619                 | 8-719-911-19<br>8-719-908-03<br>8-719-110-41  | DIODE GPO8D                     |   |                                 |                                       |  |
| C624<br>C625<br>C627    | 1-124-477-11<br>1-161-973-00<br>1-136-066-00   | ELECT<br>CERAMIC  | 47MF<br>220PF<br>0.003MF                            | 20%<br>10%<br>3%                          | 16V<br>400V<br>2KV           | D620<br>D621                         | 8-719-045-48<br>8-719-911-19  | DIODE FML-G                     | i12S  |                                 |                                       |  |
| 2021                    | 1 150 000 00   |   | 3.003111  |   |                              | D622<br>D623                         | 8-719-979-58<br>8-719-045-48  | DIODE EGP10                     | D   |                                 |                                       |  |



• \* : Selected to yield optimum performance.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

| REF.NO.                                   | PART NO.  | DESCRIPTION   |                               | REMARK                       | REF.NO.                 | PART NO.                                     | DESCRIPTION           |                                   |                            |                      | REMARK |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
|---|---|---|-------------------------------|------------------------------|-------------------------|--|-----------------------|-----------------------------------|----------------------------|----------------------|--------|------------------------------|------------------------------|----------------------------------|---------------------|--|----------------------|--|--------|---------------------|----------------|----------------------|---|----------------------|--|----------------------------------|-------------------------------|--|--------------|------------------------------|-------|-------------|----|--------------|--|--------------|------------------------------|---------------|--------------------|--|----------------------|--|--------|--------------------|----|--------------------|---|------------------------------|------------------------------|--------------------------------|---------------------|--|--------------|------------------------------|-------------|--------------------|--|----------|---|--|--|---------|--|--|----------------------|--------------|-------|-----------------|----------------|---------------------|--|------|----------------------------------|--------|---------|----------------------|--------------|------------------------------|--------|-------------|----------------|--------------|--|----------------------|--|-------|-------|--------------|--------------|--------------|--------|-------------|----------|--------------|--|--------------|------------------------------|-----------|--------|-------------|----------------------|--|--------|--------------------|----------------------------|----------------------|--|----------------------|--|-------------|---------|----------------------|---------------|--------------|-------|------------|----------|--------------|--|--------------|------------------------------|-------|--------|--------------|-------------------------|--|-------|-------------------|----------------------------|----------------------|--|----------------------|--|-----------------|---------------------|----------------------|----------------|------------------------------|----------------|------------|----------------|--------------|--|--------------|------------------------------|--------|--------|----------------|-------------------------|--|----------------|------------------|----------------|----------------------|--|------|--------------|--|---------|--------|-------|--|--|--|----|------|--|
| D625<br>D626<br>D628                      | 8-719-016-42<br>8-719-109-71<br>8-719-979-50  | DIODE MC932   | l                             |                              | R619<br>R620            |  | METAL OXIDE           | 82K<br>82K                        | 5%<br>5%                   | 1 W<br>1 W           | F      |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| D629<br>D630                              | 8-719-979-85<br>8-719-911-19  | DIODE EGP20G  |                               |                              | R621<br>R622            | 1-249-427-11                                 | WIREWOUND             | 6.8K<br>0.15                      | 10%                        | 1/4W<br>2W           | F      |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| D631                                      | 8-719-911-19  | DIODE 188119  |                               |                              | R624<br>R625            | 1-249-393-11<br>1-247-887-00<br>1-247-887-00 | CARBON                | 10<br>220K<br>220K                | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
|   | <fer< td=""><td>RITE BEAD&gt;</td><td></td><td></td><td>R626</td><td>1-249-436-11<br/>1-249-429-11</td><td>CARBON</td><td>39K<br/>10K<br/>100K<br/>330K</td><td>5%<br/>5%</td><td>1/4W<br/>1/4W</td><td></td></fer<>  | RITE BEAD>  |                               |                              | R626                    | 1-249-436-11<br>1-249-429-11                 | CARBON                | 39K<br>10K<br>100K<br>330K        | 5%<br>5%                   | 1/4W<br>1/4W         |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| FB601 <u>A</u><br>FB602 <u>A</u><br>FB603 | 1-543-190-11<br>1-543-190-11<br>1-410-396-41  | BEAD, FERRITE BEAD, FERRITE FERRITE BEAD II         | NDUCTOR 0.45U                 | H                            | R628<br>R629<br>R630    | 1-214-777-00<br>1-247-891-00<br>1-249-424-11 | CARBON                | 100K<br>330K<br>3.9K              | 1%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| 1 2007/4                                  | PY 242 120 YY   | BEAD, FERRITE<br>BEAD, FERRITE                      |                               |                              | R631<br>R632            | 1-249-429-11<br>1-247-885-00                 | CARBON                |                                   |                            | 1/4W<br>1/4W         |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
|   | <10>  |   | NDUCTOR 0.45U                 |                              | R633<br>R634<br>R635    | 1-249-412-11<br>1-211-867-11<br>1-249-441-11 | CARBON                | 10K<br>180K<br>390<br>180<br>100K | 5%<br>5%<br>5%             | 1/4W<br>10W<br>1/4W  |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| I C601<br>I C602                          | 8-759-100-75<br>8-759-255-41<br>8-759-927-49  | IC UPC1394C<br>IC MM1108XS                          |                               |                              | R636                    | 1-247-753-11                                 | CARBON                |                                   |                            | 1/2W<br>3W           | F      |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| i C604                                    | 8-759-924-12  | IC LM7805CT   |                               |                              | R638<br>R641            | 1-216-491-11<br>1-211-868-11<br>1-247-807-31 | METAL OXIDE           | 56K<br>2.2K<br>100                | 5%<br>5%<br>5%<br>5%       | 3W<br>10W<br>1/4W    | F      |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| 1.602                                     | <coi< td=""><td>L&gt;</td><td>10000</td><td></td><td>I DC 4.4</td><td>1-249-423-11<br/>1-249-417-11</td><td>CARBON</td><td>3.3K</td><td>57</td><td>1/4W<br/>1/4W</td><td></td></coi<>   | L>  | 10000                         |                              | I DC 4.4                | 1-249-423-11<br>1-249-417-11                 | CARBON                | 3.3K                              | 57                         | 1/4W<br>1/4W         |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| L603<br>L604<br>L605                      | 1-410-645-31<br>1-407-365-00<br>1-410-645-31  | L> INDUCTOR COIL, CHOKE INDUCTOR                    | 1000H                         |                              | R645<br>R646<br>R647    | 1-218-265-11<br>1-249-417-11                 | METAL GLAZE<br>CARBON | 1K<br>8.2M<br>1K                  | 5%<br>5%<br>5%<br>5%       | 1W<br>1/4W           |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
|   | <phc< td=""><td>TO COUPLER&gt;</td><td></td><td></td><td>R648</td><td>1-260-121-11</td><td>CARBON<br/>CARBON</td><td>68K</td><td></td><td>1/2W</td><td>F</td></phc<>  | TO COUPLER>   |                               |                              | R648                    | 1-260-121-11                                 | CARBON<br>CARBON      | 68K                               |                            | 1/2W                 | F      |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| PH602<br>PH606                            | 8-749-923-50<br>8-749-923-50  | PHOTO COUPLER PHOTO COUPLER PHOTO COUPLER ANSISTOR> | PC111YS<br>PC111YS            |                              | R650<br>R652            | 1-249-422-11<br>1-247-895-00                 | CARBON<br>CARBON      | 680<br>2.7K<br>470K<br>120K       | 5%<br>5%                   | 1/2W<br>1/4W<br>1/4W |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
|   | <tr <="" td=""><td>ANSISTOR&gt;</td><td></td><td></td><td>R653<br/>R654</td><td>1-260-124-11<br/>1-215-924-71</td><td></td><td>15K</td><td>5%</td><td>1/2₩<br/>3₩</td><td>F</td></tr> <tr><td><b>Q</b>601<br/><b>Q</b>602</td><td>8-729-119-78<br/>8-729-119-80</td><td>TRANSISTOR 250<br/>TRANSISTOR 250</td><td>2785-HFE<br/>2688-LK</td><td></td><td>R655<br/>R656<br/>R659</td><td>1-249-440-11<br/>1-247-883-00<br/>1-249-443-11</td><td>CARBON</td><td>82K<br/>150K<br/>0.47</td><td>5%<br/>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td>F</td></tr> <tr><td>Q603<br/>Q605<br/>Q606</td><td>8-729-119-80<br/>8-729-119-80<br/>8-729-802-14</td><td>TRANSISTOR 2SO<br/>TRANSISTOR 2SO</td><td>22688-LK<br/>22688-LK<br/>23460</td><td></td><td>R660<br/>R661</td><td>1-215-427-00<br/>1-215-412-00</td><td>METAL</td><td>1.8K<br/>430</td><td>1%</td><td>1/4W<br/>1/4W</td><td></td></tr> <tr><td>Q607<br/>Q609</td><td>8-729-140-96<br/>8-729-905-67</td><td>TRANSISTOR 25</td><td>0774-34<br/>01944-K</td><td></td><td>R662<br/>R663<br/>R664</td><td>1-260-123-11<br/>1-260-089-11<br/>1-216-390-71</td><td>CARBON</td><td>100K<br/>150<br/>1.2</td><td>59</td><td>1/2W<br/>1/2W<br/>3W</td><td>F</td></tr> <tr><td><b>Q</b>610<br/><b>Q</b>611</td><td>8-729-209-03<br/>8-729-200-17</td><td>TRANSISTOR 2S<br/>TRANSISTOR 2S</td><td>C2551-R0<br/>A1091-0</td><td></td><td>R665<br/>R666</td><td>1-216-390-71<br/>1-216-368-11</td><td>METAL OXIDE</td><td>1.2<br/>1.2<br/>0.82</td><td></td><td>3₩<br/>2₩</td><td>F</td></tr> <tr><td></td><td></td><td>SISTOR&gt;</td><td></td><td></td><td>R667<br/>R669<br/>R670</td><td>1-205-943-11</td><td>METAL</td><td>1<br/>560<br/>33K</td><td>5%<br/>1%<br/>5%</td><td>20W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td>R602</td><td>▲ 1-260-123-91<br/>▲ 1-260-123-91</td><td>CARBON</td><td>100K 5%</td><td>1/2W<br/>1/2W<br/>1/4W</td><td>R671<br/>R672</td><td>1-249-429-11<br/>1-215-469-00</td><td>CARBON</td><td>10K<br/>100K</td><td>5%<br/>5%<br/>1%</td><td>1/4W<br/>1/4W</td><td></td></tr> <tr><td>R603<br/>R604<br/>R605</td><td>1-249-427-11<br/>▲ 1-214-937-55<br/>1-249-434-11</td><td>METAL</td><td>1M 1%</td><td>1/2W<br/>1/4W</td><td>R673<br/>R674</td><td>1-249-437-11</td><td>CARBON</td><td>47K<br/>270K</td><td>5%<br/>5%</td><td>1/4W<br/>1/4W</td><td></td></tr> <tr><td>R606<br/>R607</td><td>1-260-111-11<br/>1-205-943-11</td><td>WIREWOUND</td><td>10K 5%</td><td>1/2W<br/>20W</td><td>R675<br/>R676<br/>R677</td><td>1-249-429-11<br/>1-247-883-00<br/>1-260-120-11</td><td>CARBON</td><td>10K<br/>150K<br/>56K</td><td>5%<br/>5%<br/>5%<br/>5%<br/>5%</td><td>1/4W<br/>1/4W<br/>1/2W</td><td></td></tr> <tr><td>R608<br/>R609<br/>R610</td><td>1-260-127-11<br/>1-215-922-11<br/>1-215-922-11</td><td>METAL OXIDE</td><td>6.8K 5%</td><td>1/2W<br/>3W F<br/>3W F</td><td>R678<br/>*R690</td><td>1-249-436-11</td><td>METAL</td><td>39K<br/>470</td><td>5%<br/>1%</td><td>1/4W<br/>1/4W</td><td></td></tr> <tr><td>R611<br/>R612</td><td>1-215-457-00<br/>1-202-719-00</td><td>SOLID</td><td>1M 20%</td><td>1/4W<br/>1/2W</td><td>*R690<br/>*R690<br/>*R690</td><td>1-215-414-00<br/>1-214-723-00<br/>1-214-127-00</td><td>METAL</td><td>510<br/>560<br/>620</td><td>5%<br/>1%<br/>1%<br/>1%<br/>1%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td>R613<br/>R614<br/>R615</td><td>1-202-720-00<br/>1-249-423-11<br/>1-260-322-11</td><td>SOLID<br/>CARBON</td><td>1.2M 20%<br/>3.3K 5%</td><td>1/2W<br/>1/4W<br/>1/2W</td><td>*R690<br/>*R690</td><td>1-214-725-00<br/>1-215-418-00</td><td>METAL<br/>METAL</td><td>680<br/>750</td><td>1%<br/>1%<br/>1%</td><td>1/4W<br/>1/4W</td><td></td></tr> <tr><td>R616<br/>R617</td><td>1-247-710-11<br/>1-214-716-00</td><td>CARBON</td><td>560 5%</td><td>1/4W F<br/>1/4W</td><td>*R690<br/>*R690<br/>*R690</td><td>1-214-727-00<br/>1-214-728-11<br/>1-214-729-00</td><td>METAL<br/>METAL</td><td>820<br/>910<br/>1K</td><td>1%<br/>1%<br/>1%</td><td>1/4W<br/>1/4W<br/>1/4W</td><td></td></tr> <tr><td>R618</td><td>1-249-496-11</td><td></td><td>100K 5%</td><td>1/2W F</td><td>*R690</td><td></td><td></td><td></td><td>1%</td><td>1/4W</td><td></td></tr> | ANSISTOR>   |                               |                              | R653<br>R654            | 1-260-124-11<br>1-215-924-71                 |                       | 15K                               | 5%                         | 1/2₩<br>3₩           | F      | <b>Q</b> 601<br><b>Q</b> 602 | 8-729-119-78<br>8-729-119-80 | TRANSISTOR 250<br>TRANSISTOR 250 | 2785-HFE<br>2688-LK |  | R655<br>R656<br>R659 | 1-249-440-11<br>1-247-883-00<br>1-249-443-11 | CARBON | 82K<br>150K<br>0.47 | 5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W | F | Q603<br>Q605<br>Q606 | 8-729-119-80<br>8-729-119-80<br>8-729-802-14 | TRANSISTOR 2SO<br>TRANSISTOR 2SO | 22688-LK<br>22688-LK<br>23460 |  | R660<br>R661 | 1-215-427-00<br>1-215-412-00 | METAL | 1.8K<br>430 | 1% | 1/4W<br>1/4W |  | Q607<br>Q609 | 8-729-140-96<br>8-729-905-67 | TRANSISTOR 25 | 0774-34<br>01944-K |  | R662<br>R663<br>R664 | 1-260-123-11<br>1-260-089-11<br>1-216-390-71 | CARBON | 100K<br>150<br>1.2 | 59 | 1/2W<br>1/2W<br>3W | F | <b>Q</b> 610<br><b>Q</b> 611 | 8-729-209-03<br>8-729-200-17 | TRANSISTOR 2S<br>TRANSISTOR 2S | C2551-R0<br>A1091-0 |  | R665<br>R666 | 1-216-390-71<br>1-216-368-11 | METAL OXIDE | 1.2<br>1.2<br>0.82 |  | 3₩<br>2₩ | F |  |  | SISTOR> |  |  | R667<br>R669<br>R670 | 1-205-943-11 | METAL | 1<br>560<br>33K | 5%<br>1%<br>5% | 20W<br>1/4W<br>1/4W |  | R602 | ▲ 1-260-123-91<br>▲ 1-260-123-91 | CARBON | 100K 5% | 1/2W<br>1/2W<br>1/4W | R671<br>R672 | 1-249-429-11<br>1-215-469-00 | CARBON | 10K<br>100K | 5%<br>5%<br>1% | 1/4W<br>1/4W |  | R603<br>R604<br>R605 | 1-249-427-11<br>▲ 1-214-937-55<br>1-249-434-11 | METAL | 1M 1% | 1/2W<br>1/4W | R673<br>R674 | 1-249-437-11 | CARBON | 47K<br>270K | 5%<br>5% | 1/4W<br>1/4W |  | R606<br>R607 | 1-260-111-11<br>1-205-943-11 | WIREWOUND | 10K 5% | 1/2W<br>20W | R675<br>R676<br>R677 | 1-249-429-11<br>1-247-883-00<br>1-260-120-11 | CARBON | 10K<br>150K<br>56K | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/2W |  | R608<br>R609<br>R610 | 1-260-127-11<br>1-215-922-11<br>1-215-922-11 | METAL OXIDE | 6.8K 5% | 1/2W<br>3W F<br>3W F | R678<br>*R690 | 1-249-436-11 | METAL | 39K<br>470 | 5%<br>1% | 1/4W<br>1/4W |  | R611<br>R612 | 1-215-457-00<br>1-202-719-00 | SOLID | 1M 20% | 1/4W<br>1/2W | *R690<br>*R690<br>*R690 | 1-215-414-00<br>1-214-723-00<br>1-214-127-00 | METAL | 510<br>560<br>620 | 5%<br>1%<br>1%<br>1%<br>1% | 1/4W<br>1/4W<br>1/4W |  | R613<br>R614<br>R615 | 1-202-720-00<br>1-249-423-11<br>1-260-322-11 | SOLID<br>CARBON | 1.2M 20%<br>3.3K 5% | 1/2W<br>1/4W<br>1/2W | *R690<br>*R690 | 1-214-725-00<br>1-215-418-00 | METAL<br>METAL | 680<br>750 | 1%<br>1%<br>1% | 1/4W<br>1/4W |  | R616<br>R617 | 1-247-710-11<br>1-214-716-00 | CARBON | 560 5% | 1/4W F<br>1/4W | *R690<br>*R690<br>*R690 | 1-214-727-00<br>1-214-728-11<br>1-214-729-00 | METAL<br>METAL | 820<br>910<br>1K | 1%<br>1%<br>1% | 1/4W<br>1/4W<br>1/4W |  | R618 | 1-249-496-11 |  | 100K 5% | 1/2W F | *R690 |  |  |  | 1% | 1/4W |  |
| ANSISTOR>                                 |   |   | R653<br>R654                  | 1-260-124-11<br>1-215-924-71 |                         | 15K  | 5%                    | 1/2₩<br>3₩                        | F                          |                      |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| <b>Q</b> 601<br><b>Q</b> 602              | 8-729-119-78<br>8-729-119-80  | TRANSISTOR 250<br>TRANSISTOR 250                    | 2785-HFE<br>2688-LK           |                              | R655<br>R656<br>R659    | 1-249-440-11<br>1-247-883-00<br>1-249-443-11 | CARBON                | 82K<br>150K<br>0.47               | 5%<br>5%<br>5%             | 1/4W<br>1/4W<br>1/4W | F      |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| Q603<br>Q605<br>Q606                      | 8-729-119-80<br>8-729-119-80<br>8-729-802-14  | TRANSISTOR 2SO<br>TRANSISTOR 2SO                    | 22688-LK<br>22688-LK<br>23460 |                              | R660<br>R661            | 1-215-427-00<br>1-215-412-00                 | METAL                 | 1.8K<br>430                       | 1%                         | 1/4W<br>1/4W         |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| Q607<br>Q609                              | 8-729-140-96<br>8-729-905-67  | TRANSISTOR 25                                       | 0774-34<br>01944-K            |                              | R662<br>R663<br>R664    | 1-260-123-11<br>1-260-089-11<br>1-216-390-71 | CARBON                | 100K<br>150<br>1.2                | 59                         | 1/2W<br>1/2W<br>3W   | F      |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| <b>Q</b> 610<br><b>Q</b> 611              | 8-729-209-03<br>8-729-200-17  | TRANSISTOR 2S<br>TRANSISTOR 2S                      | C2551-R0<br>A1091-0           |                              | R665<br>R666            | 1-216-390-71<br>1-216-368-11                 | METAL OXIDE           | 1.2<br>1.2<br>0.82                |                            | 3₩<br>2₩             | F      |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
|   |   | SISTOR>   |                               |                              | R667<br>R669<br>R670    | 1-205-943-11                                 | METAL                 | 1<br>560<br>33K                   | 5%<br>1%<br>5%             | 20W<br>1/4W<br>1/4W  |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| R602                                      | ▲ 1-260-123-91<br>▲ 1-260-123-91  | CARBON  | 100K 5%                       | 1/2W<br>1/2W<br>1/4W         | R671<br>R672            | 1-249-429-11<br>1-215-469-00                 | CARBON                | 10K<br>100K                       | 5%<br>5%<br>1%             | 1/4W<br>1/4W         |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| R603<br>R604<br>R605                      | 1-249-427-11<br>▲ 1-214-937-55<br>1-249-434-11  | METAL   | 1M 1%                         | 1/2W<br>1/4W                 | R673<br>R674            | 1-249-437-11                                 | CARBON                | 47K<br>270K                       | 5%<br>5%                   | 1/4W<br>1/4W         |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| R606<br>R607                              | 1-260-111-11<br>1-205-943-11  | WIREWOUND   | 10K 5%                        | 1/2W<br>20W                  | R675<br>R676<br>R677    | 1-249-429-11<br>1-247-883-00<br>1-260-120-11 | CARBON                | 10K<br>150K<br>56K                | 5%<br>5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/2W |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| R608<br>R609<br>R610                      | 1-260-127-11<br>1-215-922-11<br>1-215-922-11  | METAL OXIDE   | 6.8K 5%                       | 1/2W<br>3W F<br>3W F         | R678<br>*R690           | 1-249-436-11                                 | METAL                 | 39K<br>470                        | 5%<br>1%                   | 1/4W<br>1/4W         |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| R611<br>R612                              | 1-215-457-00<br>1-202-719-00  | SOLID   | 1M 20%                        | 1/4W<br>1/2W                 | *R690<br>*R690<br>*R690 | 1-215-414-00<br>1-214-723-00<br>1-214-127-00 | METAL                 | 510<br>560<br>620                 | 5%<br>1%<br>1%<br>1%<br>1% | 1/4W<br>1/4W<br>1/4W |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| R613<br>R614<br>R615                      | 1-202-720-00<br>1-249-423-11<br>1-260-322-11  | SOLID<br>CARBON                                     | 1.2M 20%<br>3.3K 5%           | 1/2W<br>1/4W<br>1/2W         | *R690<br>*R690          | 1-214-725-00<br>1-215-418-00                 | METAL<br>METAL        | 680<br>750                        | 1%<br>1%<br>1%             | 1/4W<br>1/4W         |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| R616<br>R617                              | 1-247-710-11<br>1-214-716-00  | CARBON  | 560 5%                        | 1/4W F<br>1/4W               | *R690<br>*R690<br>*R690 | 1-214-727-00<br>1-214-728-11<br>1-214-729-00 | METAL<br>METAL        | 820<br>910<br>1K                  | 1%<br>1%<br>1%             | 1/4W<br>1/4W<br>1/4W |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |
| R618                                      | 1-249-496-11  |   | 100K 5%                       | 1/2W F                       | *R690                   |  |                       |                                   | 1%                         | 1/4W                 |        |                              |                              |                                  |                     |  |                      |  |        |                     |                |                      |   |                      |  |                                  |                               |  |              |                              |       |             |    |              |  |              |                              |               |                    |  |                      |  |        |                    |    |                    |   |                              |                              |                                |                     |  |              |                              |             |                    |  |          |   |  |  |         |  |  |                      |              |       |                 |                |                     |  |      |                                  |        |         |                      |              |                              |        |             |                |              |  |                      |  |       |       |              |              |              |        |             |          |              |  |              |                              |           |        |             |                      |  |        |                    |                            |                      |  |                      |  |             |         |                      |               |              |       |            |          |              |  |              |                              |       |        |              |                         |  |       |                   |                            |                      |  |                      |  |                 |                     |                      |                |                              |                |            |                |              |  |              |                              |        |        |                |                         |  |                |                  |                |                      |  |      |              |  |         |        |       |  |  |  |    |      |  |

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

• \* : Selected to yield optimum performance.



| REF.NO. PART NO.  | DESCRIPTION  |  | REMARK                             |                                      | PART NO.   | DESCRIPTION  | N<br>-                           |                            | <b>b</b>                     | REMARK |
|---|--|--|------------------------------------|--------------------------------------|--|--|----------------------------------|----------------------------|------------------------------|--------|
| RV601 1-241-759-2   | D METAL 1.3K 1% 1% 1.5K 1% 1% 1% 1.5K 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W<br>1/4W |                                    | D701<br>D702<br>D703<br>D704<br>D705 | *1-564-511-51<br>*1-573-964-11<br>*1-691-134-11<br><dioi 8-719-901-83="" 8-719-901-83<="" 8-719-911-19="" td=""><td>DE&gt;  DIODE 1SS11 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83</td><td>999999999</td><td>OARD)<br/>OARD)</td><td>6P<br/>2P</td><td></td></dioi> | DE>  DIODE 1SS11 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 | 999999999                        | OARD)<br>OARD)             | 6P<br>2P                     |        |
|   | RANSFOMER><br>1 Transformer, line filte  | R (LFT)  |                                    | 1<br>1<br>1<br>0<br>1<br>1<br>1      | <jac< td=""><td></td><td></td><td></td><td></td><td></td></jac<>   |  |                                  |                            |                              |        |
| T602 A. 1-426-716-1<br>T603 1-437-090-0<br>T604 1-426-665-1                                 | 1 TRANSFORMER, LINE FILTE<br>O HDT   | R (LFT)  |                                    | J701 /                               | <u>↑ 1-526-819-11</u><br><001  |  | TURE TUBI                        | 3                          |                              |        |
| <'  | HERMISTOR>   |  |                                    | L701<br>L705                         | 1-410-667-31<br>1-412-532-11   | INDUCTOR   | 22UH<br>39UH                     |                            |                              |        |
| TH601 1-807-973-<br>TH602 1-807-973-<br>THP601A1-808-059-                                   | 1 THERMISTOR<br>1 THERMISTOR<br>2 THERMISTOR, POSITIVE   |  | •                                  |                                      |  | NSISTOR>   |                                  |                            |                              |        |
| *A-1331-299   | A C BOARD, COMPLETE  | ******   | ******                             | Q701<br>Q702<br>Q703<br>Q704<br>Q705 | 8-729-119-78<br>8-729-119-78<br>8-729-119-78<br>8-729-200-17<br>8-729-200-17   | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR   | 2SC2785-<br>2SC2785-<br>2SA1091- | HFE<br>HFE<br>O            |                              |        |
| *4-374-912-<br>*4-374-913-  | OL COVER (MAIN), CV VOL<br>OL COVER (REAR LID), CV VO  | )L   |                                    | 0706<br>0707<br>0708                 | 8-729-200-17<br>8-729-326-11<br>8-729-326-11   | TRANSISTOR   | 2SC2611                          | 0                          |                              |        |
|   | CAPACITOR><br>DO CERAMIC 560PF   | 10%  | 500V                               | 0709<br>0710                         | 8-729-326-11<br>8-729-200-17   | TRANSISTOR   | 2SC2611                          | 0                          |                              |        |
| C702 1-102-157-   | 00 CERAMIC 560PF<br>00 CERAMIC 560PF<br>00 CERAMIC 0.0022MF  | 10%<br>10%<br>10%<br>20%                                     | 500V<br>500V<br>500V<br>50V<br>16V | Q711<br>Q712<br>Q713<br>Q714<br>Q715 | 8-729-200-17<br>8-729-200-17<br>8-729-255-12<br>8-729-255-12<br>8-729-119-78   | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR   | 2SA1091-<br>2SC2551-<br>2SC2551- | 0<br>0<br>0                |                              |        |
| C706 1-102-074-<br>C707 1-162-116-<br>C708 1-136-601-<br>C710 1-101-880-<br>C711 1-101-880- | DO CERAMIC 680PF<br>11 FILM 0.01MF<br>DO CERAMIC 47PF  | 10%<br>10%<br>5%<br>5%<br>5%                                 | 50V<br>2KV<br>630V<br>50V<br>50V   | Q716<br>Q717                         | 8-729-119-78<br>8-729-119-78   | TRANSISTOR<br>TRANSISTOR   | 2SC2785-                         | HFE                        |                              |        |
| C712 1-101-880-<br>C713 1-123-946-  |  | 5%<br>20%  | 50V<br>250V                        | R702                                 | <res<br>1-247-903-00</res<br>  | SISTOR><br>CARBON  | 1M                               | 57                         | 1/4W                         |        |
| C714 1-102-976-<br>C715 1-102-976-<br>C716 1-102-976-                                       | OO CERAMIC 180PF<br>DO CERAMIC 180PF   | 5%<br>5%<br>5%   | 50V<br>50V<br>50V<br>50V           | R704<br>R705<br>R706<br>R707         | 1-215-405-00<br>1-215-405-00<br>1-215-405-00<br>1-215-405-00<br>1-249-431-11   | METAL<br>METAL<br>METAL<br>CARBON  | 220<br>220<br>220<br>220<br>15K  | 5%<br>1%<br>1%<br>1%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W |        |
| C717 1-106-399-<br>C718 1-106-399-<br>C720 1-108-700-                                       | 00 MYLAR 0.22MF<br>11 MYLAR 0.047MF  | 10%<br>10%<br>10%  | 200V<br>200V<br>200V               | R708<br>R709                         | 1-249-431-11<br>1-249-431-11   | CARBON<br>CARBON   | 15K<br>15K                       | 5%<br>5%<br>1%             | 1/4W<br>1/4W                 |        |
| C720 1-108-700-<br>C734 1-102-973-<br>C735 1-102-816-                                       | OO CERAMIC 100PF   | 5%<br>5%   | 50V<br>50V                         | R710<br>R711                         | 1-215-391-00<br>1-215-394-00   | METAL<br>METAL   | 56<br>75                         | 1%<br>1%<br>1%             | 1/4W<br>1/4W                 |        |
| C736 1-102-816-   | 00 CERAMIC 120PF   | 5%   | 50V                                | R712                                 | 1-215-392-00   | METAL  | 62                               | 1.6                        | 1/4W                         |        |



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The components identified by shading and mark are critical for safety.

Replace only with part number specified.

| REF.NO. PART NO.  | DESCRIPTION  |   |  | REMARK   | REF.NO.  | PART NO.   | DESCRIPTION                               |                                  | REMARK   |
|---|--|---|--|--|--|--|---|----------------------------------|--|
| R716 1-216-486-71<br>R717 1-202-818-00<br>R718 1-216-486-71<br>R719 1-202-818-00<br>R720 1-216-486-71<br>R722 1-202-883-11<br>R723 1-202-838-00 | METAL OXIDE 8 SOLID 1 METAL OXIDE 8 SOLID 8 METAL OXIDE 8 SOLID 6 SOLID 6 SOLID 1 SOLID 2                                    | K 207<br>.2K 57<br>K 207<br>.2K 57<br>K 207<br>.2K 57<br>80K 207<br>00K 207<br>207<br>M 207 | 1/2W<br>3W<br>1/2W                               | F<br>F   | R2138<br>R2139<br>R2140<br>R2141                   | 1-249-414-11<br>1-249-414-11<br>1-249-414-11<br>1-249-414-11<br>1-249-414-11                 | CARBON<br>CARBON<br>CARBON<br>CARBON      | 560<br>560<br>560<br>560<br>560  | 5% 1/4W<br>(PVM-1351Q/1354Q)<br>5% 1/4W<br>(PVM-1351Q/1354Q)<br>5% 1/4W<br>5% 1/4W<br>(PVM-1351Q/1354Q)<br>5% 1/4W<br>5% 1/4W<br>5% 1/4W |
| R731 1-249-409-11<br>R732 1-249-409-11<br>R733 1-249-409-11<br>R734 1-249-409-11<br>R735 1-249-409-11   | CARBON 2 CARBON 2 CARBON 2 CARBON 2  | 20 5%<br>20 5%<br>20 5%<br>20 5%<br>20 5%   |  | F  | R2144<br>R2145<br>R2147                            | 1-249-414-11<br>1-249-414-11<br>1-249-414-11   | CARBON<br>CARBON<br>CARBON<br>METAL       | 560<br>560<br>560<br>1.8K<br>820 | 5% 1/4W<br>5% 1/4W<br>1% 1/4W<br>(PVM-1351Q/1354Q)<br>1% 1/4W  |
| R736 1-249-409-11<br>R737 1-247-807-31<br>R738 1-247-807-31<br>R739 1-247-807-31<br>R740 1-249-429-11   | CARBON         1           CARBON         1           CARBON         1           CARBON         1           CARBON         1 | 220 5%<br>000 5%<br>000 5%<br>000 5%<br>000 5%<br>00K 5%                                    | 1/4W   | F  | R2149<br>R2150<br>R2151<br>R2152                   | 1-215-414-00<br>1-215-409-00<br>1-215-407-00<br>1-215-404-00                                 |   | 510<br>330<br>270<br>200         | (PVM-1351Q/1354Q)  1% 1/4W (PVM-1351Q/1354Q)  1% 1/4W  1% 1/4W  1% 1/4W  |
| R742 1-249-429-11<br>R744 1-249-429-11<br>R745 1-249-429-11<br>R746 1-215-879-11<br>R747 1-247-725-11<br>R748 1-247-713-11<br>R749 1-215-902-71 | CARBON 1 CARBON 1 METAL OXIDE 4 CARBON 1 CARBON 1 METAL OXIDE 4  | OK 5%<br>OK 5%<br>OK 5%<br>OK 5%<br>17K 5%<br>10K 5%<br>17K 5%<br>17K 5%                    | 1/4W<br>1/4W<br>1/4W<br>1W<br>1/4W<br>1/4W<br>2W | F  | R2153<br>R2154<br>R2155<br>R2156<br>R2157<br>R2158 | 1-215-401-11<br>1-215-399-00<br>1-215-397-00<br>1-215-421-00<br>1-215-416-00<br>1-215-410-00 | METAL<br>METAL<br>METAL<br>METAL<br>METAL | 150<br>120<br>100<br>1K<br>620   | 1% 1/4W<br>1% 1/4W<br>1% 1/4W<br>1% 1/4W<br>1% 1/4W<br>1% 1/4W   |
| R750 1-249-400-11<br>R751 1-247-887-00<br>R752 1-247-887-00<br>R753 1-247-887-00  | CARBON 2<br>CARBON 2<br>CARBON 2   | 39 5%<br>220K 5%<br>220K 5%<br>220K 5%  | 1/4W<br>1/4W<br>1/4W<br>1/4W                     |  | RV2101   | 1-241-846-11   | METAL  IABLE RESISTON  RES. VAR. CAN      | RBON 20                          | 1% 1/4W<br>DK  |
| <pre></pre>   |  |   | RV2105<br>RV2109<br>RV2113                       | 3 1-241-845-11<br>5 1-241-845-11<br>0 1-241-845-11<br>3 1-241-845-11<br>7 1-241-846-11 | RES, VAR, CAI<br>RES, VAR, CAI<br>RES, VAR, CAI    | RBON 20<br>RBON 20<br>RBON 20  | DK<br>DK<br>DK                            |                                  |  |
| *A-1371-971-A H BOARD, COMPLETE (PVM-1351Q/1354Q)   |  |   |  |  |  | <sw1< td=""><td>TCH&gt;</td><td></td><td></td></sw1<>  | TCH>                                      |                                  |  |
|   | **************************************   |   |  |  |  | 1-570-101-41<br>1-570-101-41<br>1-570-101-41<br>1-570-101-41<br>1-570-101-41                 | SWITCH, KEY<br>SWITCH, KEY<br>SWITCH, KEY | BOARD<br>BOARD<br>BOARD          | (PVM-1351Q/1354Q)  |
| <connector></connector>   |  |   |  |  |  | 1-570-969-11   | SWITCH, KEY                               | BOARD                            |  |
|   | CN105 *1-564-527-11 PLUG, CONNECTOR 12P<br>CN106 *1-564-526-11 PLUG, CONNECTOR 11P   |   |  |  | S2108<br>S2109                                     | 1-570-969-11<br>1-570-101-41<br>1-570-101-41<br>1-570-101-41                                 | SWITCH, KEY<br>SWITCH, KEY                | BOARD<br>Board                   | (PVM-1351Q/1354Q)  |
| <diode></diode>   |  |   | S2111  | 1-570-101-41   | SWITCH, KEY  | BOARD  | (PVM-1351Q/1354Q)<br>(PVM-1351Q/1354Q)    |                                  |  |
|   | D2102 8-719-920-05 D10DE SLP281C-50<br>D2103 8-719-812-32 D10DE TLY123 (PVM-1351Q/1354Q)                                     |   |  |  |  | 1-570-969-11<br>1-570-969-11   | SWITCH, KEY<br>SWITCH, KEY                | BOARD<br>Board                   | **************************************   |
| <resistor></resistor>   |  |   |  |  |  | *A-1388-166-A  |   |                                  | **********   |
| R2101 1-249-419-11<br>R2102 1-249-416-11  |  | 1.5K 5%<br>820 5%   | 1/4W<br>1/4W                                     |  |  | 1200 100 11  | ******                                    |                                  |  |
| R2107 1-249-430-11<br>R2136 1-249-414-11  | CARBON   | 12K 5% 560 5%   | 1/4W<br>1/4W                                     | 1Q/1354Q)<br>1Q/1354Q)   |  | <00<br>*1-695-561-11   | NNECTOR> PIN, CONNECT                     | OR (PC                           | BOARD) 7P  |

# PVM-1350/1351Q/1354Q

## SONY. SERVICE MANUAL

### US Model Canadian Model

PVM-1350 Serial No. 2,003,651 and Higher Chassis No. SCC-G61D-A

PVM-1351Q

Serial No. 2,004,051 and Higher Chassis No. SCC-G61C-A PVM-1354O

Serial No. 2,006,601 and Higher Chassis No. SCC-G61B-A

### **SUPPLEMENT-1**

File this supplement with the service manual.

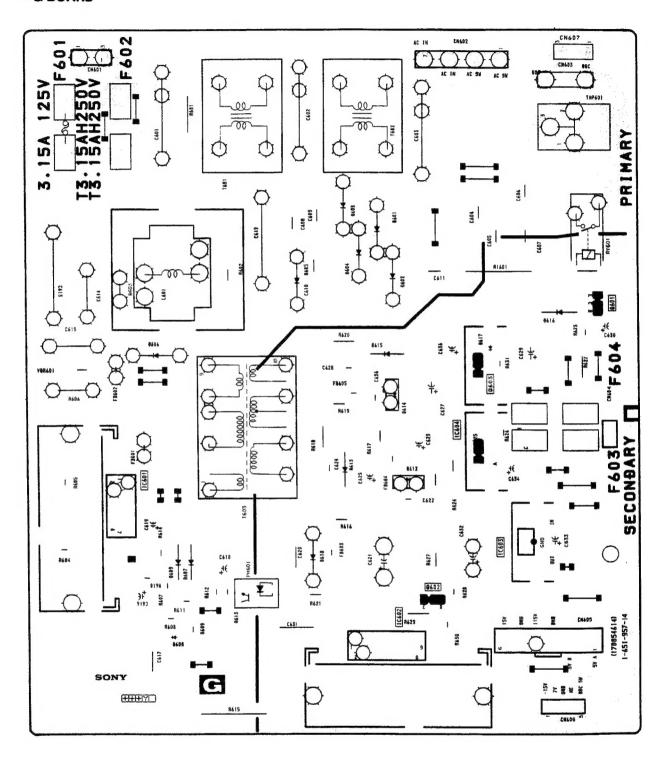
#### INTRODUCTION

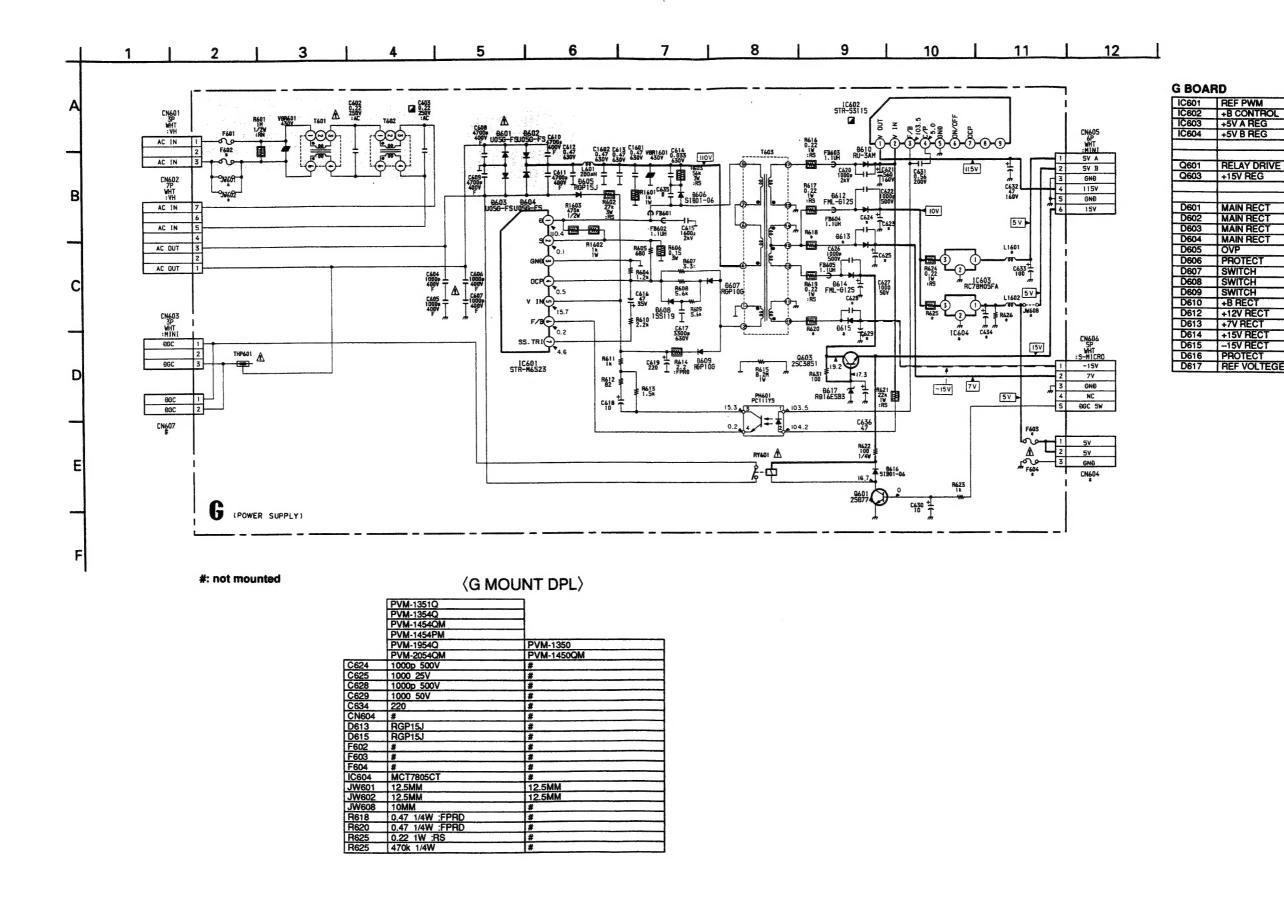
Set, having CE mark (Safety mark), have been applied to the above Serial No. and changed G Block.

New G Block shows on next pages.



### - G BOARD -





-4-

### The components identified by shading and mark A are critical for safety. Replace only with part number

specified.

TARREST TARREST CO. Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

# G

# G

PVM-1350/1351Q/1354Q

The components identified by shading and mark A are critical for safety.

Replace only with part number

specified.

une trame et une marque 🐧 sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie.

Les composants identifies par

| REF.NO. PART NO.   | DESCRIPTION REM.                          |   |  | REMARK                               | REF.NO.                              | PART NO.  | DESCRIPTION  | REMARK |
|--|---|---|--|--------------------------------------|--------------------------------------|---|--|--------|
| * A-1316-213-A   | G BOARD, COM                              | PVM-1<br>(PVM-1<br>(PVM-1                               | 354Q)                                  |                                      | D606<br>D607<br>D608<br>D609<br>D610 | 8-719-300-33<br>8-719-300-33<br>8-719-911-19<br>8-719-300-33<br>8-719-300-33    | DIODE RU-3AM<br>DIODE 1SS119-25<br>DIODE RU-3AM  |        |
| * A-1316-214-A   | G BOARD, COM                              | (PVM-2<br>PLETE (PVM-1                                  | 2054QM)<br>1350)                       |                                      | D612<br>D613<br>D614<br>D615<br>D616 | 8-719-971-65<br>8-719-045-48  | DIODE FML-G12S<br>DIODE RGP15J-6040<br>DIODE FML-G12S<br>DIODE RGP15J-6040<br>DIODE RU-3AM                                   |        |
| <capacitor></capacitor>  |   |   |  |                                      | D617                                 | 8-719-110-46  | DIODE RD16ESB3   |        |
| C602 A 1-136-360-51<br>C603 A 1-136-360-51<br>C604 A 1-161-741-21<br>C605 A 1-161-741-21<br>C606 A 1-161-741-21  | FILM<br>CERAMIC<br>CERAMIC                | 0.22MF<br>0.22MF<br>0.001MF<br>0.001MF<br>0.001MF       | 20%<br>20%<br>10%<br>10%<br>10%        | 250V<br>250V<br>400V<br>400V<br>400V | i                                    | 1-533-189-11<br>1-532-742-11  | FUSE, GLASS TUBE 1.6A/125V<br>HOLDER, FUSE<br>FUSE, GLASS TUBE 1.6A/125V<br>HOLDER, FUSE                                     |        |
| C607 A 1-161-741-21<br>C608 A 1-161-953-71<br>C609 A 1-161-953-71<br>C610 A 1-161-953-71<br>C611 A 1-161-953-71  | CERANIC<br>CERANIC<br>CERANIC             | 0.001MF<br>0.0047MF<br>0.0047MF<br>0.0047MF<br>0.0047MF | 107<br>207<br>207<br>207<br>207<br>207 | 400V<br>400V<br>400V<br>400V<br>400V | FRENT                                | <fer< td=""><td>RITE BEAD&gt; FERRITE BEAD INDUCTOR 0.45UH</td><td></td></fer<> | RITE BEAD> FERRITE BEAD INDUCTOR 0.45UH  |        |
| C612 <b>\( \Delta\)</b> 1-137-484-61<br>C613   | FILM<br>FILM<br>FILM<br>FILM              | 0.47MF<br>0.47MF<br>0.033MF<br>0.0016MF<br>47MF         | 10%<br>10%<br>10%<br>3%<br>20%         | 630V<br>630V<br>630V<br>2KV<br>35V   | FB602<br>FB603<br>FB604              | 1-410-396-41<br>1-410-396-41<br>1-410-396-41                                    | FERRITE BEAD INDUCTOR 0.45UH<br>FERRITE BEAD INDUCTOR 0.45UH<br>FERRITE BEAD INDUCTOR 0.45UH<br>FERRITE BEAD INDUCTOR 0.45UH |        |
| C617 1-136-557-11<br>C618 1-126-096-11<br>C619 1-124-911-11<br>C620 1-161-754-00<br>C621 1-125-494-11  | ELECT<br>ELECT<br>CERAMIC                 | 0.0033MF<br>10MF<br>220MF<br>0.001MF<br>560MF           | 10%<br>20%<br>20%<br>10%<br>20%        | 630V<br>25V<br>50V<br>2KV<br>160V    | 10602                                | 4-382-854-11<br>8-749-010-47<br>4-382-854-11                                    | IC STR-M6523<br>SCREW (M3X10), P, SW (+); IC60<br>IC STR-S3115<br>SCREW (M3X10), P, SW (+); IC60                             |        |
| C622 1-102-038-00<br>C623 1-126-944-11<br>C624 1-102-038-00<br>C625 1-124-557-11<br>C626 1-102-038-00  | ELECT<br>CERAMIC<br>ELECT                 | 0.001MF<br>3300MF<br>0.001MF<br>1000MF<br>0.001MF       | 20%<br>20%                             | 500V<br>25V<br>500V<br>25V<br>500V   |                                      | 4-382-854-11<br>8-759-231-53  | IC NJM78M05FA  SCREW (M3X10), P, SW (+); IC6( IC TA7805S  SCREW (M3X10), P, SW (+); IC6(                                     |        |
| C627 1-124-922-11<br>C628 1-102-038-00<br>C629 1-124-922-11<br>C630 1-124-907-11<br>C631 1-136-853-11  | CERAMIC<br>ELECT<br>ELECT<br>FILM         | 1000MF<br>0.001MF<br>1000MF<br>10MF<br>0.56MF           | 20%<br>20%<br>20%<br>5%                | 50V<br>500V<br>50V<br>50V<br>200V    | JW609                                |   | IPER> INDUCTOR 270UH (PVM-135  | 53MD)  |
| C632 1-124-562-11<br>C633 1-124-122-11<br>C634 1-124-911-11<br>C636 1-124-910-11<br>C1602 1-137-484-11   | ELECT                                     | 47MF<br>100MF<br>220MF<br>47MF<br>0.47MF                | 20%<br>20%<br>20%<br>20%<br>10%        | 160V<br>50V<br>50V<br>50V<br>630V    | L1601                                | <01<br>1-411-215-11<br>1-410-679-31<br>1-421-421-00                             | COIL, CHOKE 200UH<br>INDUCTOR 270UH (PVM-145   | 3MD)   |
| <00)   | NNECTOR>                                  |   |  |                                      | 1<br>1<br>1                          | < <b>PH</b> 0   | OTO COUPLER>   |        |
| CN601 1-691-960-11 PIN, CONNECTOR (PC BOARD) 3P<br>CN602 *1-695-561-11 PIN, CONNECTOR (PC BOARD) 7P<br>CN603 *1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P |   |   |  | PH601                                | 8-749-923-50                         | PHOTO COUPLER PC111YS   |  |        |
| CN603 *1-508-765-00<br>CN604 *1-564-506-11<br>CN605 *1-573-964-11  | PLUG. CONNEC                              | CTOR 3P   |  |                                      |                                      |   | ANSISTOR><br>Transistor 2SD774-34  |        |
| CN606 *1-564-508-11  |   |   |  |                                      | Q601<br>Q603                         | <b>;</b>  |  |        |
| <01  | ODE>                                      |   |  |                                      | 1<br>1<br>1                          | <res< td=""><td>SISTOR&gt;</td><td></td></res<>                                 | SISTOR>  |        |
| D601 & 8-719-032-39<br>D602 & 8-719-032-39<br>D603 & 8-719-032-39<br>D604 & 8-719-032-39<br>D605 8-719-971-65  | DIODE DSA3A<br>DIODE DSA3A<br>DIODE DSA3A | 4-F3<br>4-F3<br>4-F3                                    |  |                                      | R601 ▲<br>R602                       | 1-202-885-91<br>1-216-489-11  | SOLID 1N 20% 1/2W  |        |

| REF.NU.<br><br>R603                  | PART NO.   | DESCRIPTION                                       | ECV                                  | C#                    | วน                                 | REMARI<br>       |
|--------------------------------------|--|---|--------------------------------------|-----------------------|------------------------------------|------------------|
| R604<br>R605                         | 1-216-491-11<br>1-249-418-11<br>1-249-415-11                                 | CARBON  | 56K<br>1.2K<br>680                   | 5%<br>5%<br>5%        | 3W<br>1/4W<br>1/4W                 | r                |
| R606<br>R607<br>R608<br>R609<br>R610 | 1-207-642-00<br>1-249-423-11<br>1-249-426-11<br>1-249-426-11<br>1-249-421-11 | WIREWOUND<br>CARBON<br>CARBON<br>CARBON<br>CARBON | 0.15<br>3.3K<br>5.6K<br>5.6K<br>2.2K | 10%<br>5%<br>5%<br>5% | 3W<br>1/4W<br>1/4W<br>1/4W<br>1/4W | F                |
| R611<br>R612<br>R613<br>R614<br>R615 | 1-249-417-11<br>1-249-404-00<br>1-249-419-11<br>1-249-385-11<br>1-218-265-11 | CARBON<br>CARBON<br>CARBON<br>CARBON<br>METAL     | 1K<br>82<br>1.5K<br>2.2<br>8.2M      | 5%<br>5%<br>5%<br>5%  | 1/4W<br>1/4W<br>1/4W<br>1/4W<br>1W | F                |
| R616<br>R617<br>R618<br>R619<br>R620 | 1-216-341-11<br>1-216-341-11<br>1-249-443-11<br>1-216-341-11<br>1-249-443-11 | METAL OXIDE                                       | 0.22<br>0.22<br>0.47<br>0.22<br>0.47 | 5%<br>5%<br>5%<br>5%  | 1W<br>1W<br>1/4W<br>1W<br>1/4W     | +<br>+<br>+<br>+ |
| R621<br>R622<br>R623<br>R624<br>R625 | 1-215-877-11<br>1-247-700-11<br>1-249-417-11<br>1-216-341-11<br>1-216-341-11 | CARBON<br>CARBON                                  | 22K<br>100<br>1K<br>0.22<br>0.22     | 5%<br>5%<br>5%        | 1W<br>1/4W<br>1/4W<br>1W<br>1W     | F                |
| R1602                                | 1-247-895-00<br>1-247-807-31<br>1-215-869-11<br>1-202-846-00                 | CARBON<br>METAL OXIDE                             | 470K<br>100<br>1K<br>470K            | 5%<br>5%<br>5%<br>20% | 1/4W<br>1/4W<br>1W<br>1/2W         | F                |
|                                      | <rel< td=""><td>AY&gt;</td><td></td><td></td><td></td><td></td></rel<>       | AY>   |                                      |                       |                                    |                  |
| RY601▲                               | . 1-515-738-11   | RELAY   |                                      |                       |                                    |                  |
|                                      | <tra< td=""><td>NSFORMER&gt;</td><td></td><td></td><td></td><td></td></tra<> | NSFORMER>   |                                      |                       |                                    |                  |
| T602 ▲                               | 1-426-716-11<br>1-426-716-11<br>1-427-885-11                                 |   | LINE F                               | LTER                  | (LFT)                              |                  |
|                                      | <the< td=""><td>RMISTOR&gt;</td><td></td><td></td><td></td><td></td></the<>  | RMISTOR>  |                                      |                       |                                    |                  |
| THP6014                              | 1-808-059-32   | THERMISTOR, P                                     | OSITIV                               | E                     |                                    |                  |
|                                      | <var< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></var<>    | ISTOR>  |                                      |                       |                                    |                  |
| VDR6014                              | 1-809-942-71   | VARISTOR  |                                      |                       |                                    |                  |
|                                      | **********   | **********  | *****                                | *****                 | *****                              | ******           |

9-978-399-81

**Sony Corporation** B & I Systems Company English 95E/24059-1 Printer in Japan (2)1995. 5

shading and mark A are critical for safety.

Replace only with part number specified. 3.00 mg

The components identified by shading and mark  $\Delta$  are critical une trame et une marque  $\Delta$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. 

REF. NO. PART NO.

DESCRIPTION

REMARK | REF. NO. PART NO.

DESCRIPTION

\*

REMARK

<SWITCH>

S601 ▲ 1-692-921-11 SWITCH, PUSH (A.C. POWER)

\* \*A-1390-390-A X BOARD, COMPLETE (PVM-1351Q/1354Q)

<CONNECTOR>

CN108 \*1-564-518-11 PLUG, CONNECTOR 3P

<DIODE>

8-719-023-78 DIODE SEL3810DLC05 8-719-023-78 DIODE SEL3810DLC05 8-719-023-78 DIODE SEL3810DLC05 D001 D002 D003 8-719-023-78 DIODE SEL3810DLC05 D004

\*A-1390-391-A S BOARD, COMPLETE

<CAPACITOR>

| C805<br>C806<br>C807<br>C810<br>C811 | 1-102-978-00<br>1-136-165-00<br>1-130-477-00<br>1-136-165-00<br>1-136-165-00 | CERAMIC<br>FILM<br>MYLAR<br>FILM<br>FILM | 220PF<br>0.1MF<br>0.0033MF<br>0.1MF<br>0.1MF | 5%<br>5%<br>5%<br>5% | 50V<br>50V<br>50V<br>50V<br>50V |  |
|--------------------------------------|--|--|--|----------------------|---------------------------------|--|
| C812                                 | 1-136-175-00   | FILM                                     | 0.068MF                                      | 5%                   | 50V                             |  |
| C813                                 | 1-124-907-11   | ELECT                                    | 10MF   | 20%                  | 50V                             |  |
| C818                                 | 1-136-165-00   | FILM                                     | 0.1MF  | 5%                   | 50V                             |  |

\*

<CONNECTOR>

CN801 \*1-565-489-11 CONNECTOR, BOARD TO BOARD 13P

<10>

IC801 8-759-084-09 IC Z8612812PSC

1-410-470-11 INDUCTOR

<COIL>

<RESISTOR> 1-249-435-11 1-249-433-11 1-215-454-00 1-215-461-00 1-249-417-11 R802 CARBON 22K 24K 47K 1/4W 1/4W 1/4W R803 CARBON R804 METAL METAL. RANS CARBON R808 1-249-417-11 1-249-417-11 1-249-423-11 1-249-418-11 1K 1K 3.3K CARBON -5% 5% 5% 5% 5% R812 1/4W 1/4W 1/4W R813 R815 CARBON CARBON 1-249-418-11 CARBON 8817 CARBON CARBON CARBON R818 R819 R820 1-249-418-11 1-249-418-11 1-249-422-11 1.2K 1.2K 2.7K

1008

### MISCELLANEOUS

▲ 1-426-442-21 COIL. DEMAGNETIZATION ▲ 1-451-329-11 DEFLECTION YOKE (Y14F7A) ▲ 1-532-746-11 FUSE, GLASS TUBE (4.0A/125Y) 1-537-735-11 TERMINAL BOARD ASSY, I/O (A)

(PVM-1351Q/1354Q)

1-537-735-21 TERMINAL BOARD ASSY, I/O (B) (PVM-1350)
5PEAKER
V901 A 8-734-822-05 PICTURE TUBE (M34KBE20X) (PVM-1354Q)
A 8-736-255-05 PICTURE TUBE (A34JHS12X) (PVM-1350/1351Q)

#### ACCESSORIES AND PACKING MATERIALS \*

CORD, POWER (7.0A/125V)
CORD, CONNECTION (PVM-1351Q/1354Q)
HOLDER (B), PLUG
MANUAL, INSTRUCTION (PVM-1350)
MANUAL, INSTRUCTION (PVM-1351Q/1354Q) ▲ 1-551-812-11 1-765-268-11 2-990-242-01 3-758-528-21 3-758-531-21 INDIVIDUAL CARTON (PVM-1350) INDIVIDUAL CARTON (PVM-1354Q) INDIVIDUAL CARTON (PVM-1354Q) CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY) \*4-043-759-01 \*4-043-760-01 \*4-043-761-01 \*4-043-762-01 \*4-043-763-01 4-044-040-01 LABEL, TALLY (PVM-1351Q/1354Q) \*4-381-155-01 BAG, PROTECTION